

GENERAL INFORMATION							
Course name	Surgery 4 – Neurosurgery						
Course director	Prof. Bruno Splavski, MD, PhD						
Assistants	Asst. Prof. Božidar Muršić, MD, PhD						
Study program	Integrated undergraduate and graduate university study program Medical Studies in German						
Course status	Mandatory						
Year of study, semester	5 th year, 9 th semester						
Credits allocated and form of instruction	ECTS student workload	2					
	Number of teaching hours (L+S+E)	30 (20+5+5)					
COURSE DESCRIPTION							
Course objectives							
Learn symptoms, diseases and syndromes in neurosurgical patients, their incidence, causes, diagnostic algorithms, prognosis, prevention and treatment.							
Course requirements							
There are no specific requirements for this course except those defined in the study program curriculum.							
Learning outcomes at the Programme level							
1..1., 1.2., 2.1., 2.2., 2.3., 3.1., 3.2., 3.3., 3.4., 3.5., 4.2.							
Expected learning outcomes (5-10 learning outcomes)							
<ol style="list-style-type: none"> 1. Students will learn about the clinical examination of a neurosurgical patient 2. Students will learn about the diagnostic and therapeutic procedures in patients with injuries and/or disorders of the central and/or peripheral nervous system 3. Students will learn about the surgical urgency of a neurosurgery 4. Students will learn about the types of neurosurgery 5. Students will learn about the success rate and complications of neurosurgeries. 							
Course content							
Introduction to neurosurgery and craniocerebral injuries. Surgical treatment of degenerative spine diseases. Surgical treatment of central and peripheral nervous system tumors. Surgical treatment of cerebrovascular diseases. Pediatric neurosurgery. Emergencies in neurosurgery. Minimally invasive procedures in neurosurgery. ICU, of neurotraumatized patients. Clinical presentation of patients with brain tumor. Clinical presentation of patients with neurovascular conditions. Neurosurgical operating room and an overview of surgical instruments and tools.							
Form of instruction		<input checked="" type="checkbox"/> lectures	<input type="checkbox"/> individual assignments				
		<input checked="" type="checkbox"/> seminars and workshops	<input type="checkbox"/> multimedia and Internet				
		<input checked="" type="checkbox"/> exercises	<input type="checkbox"/> laboratory				
		<input type="checkbox"/> distance learning	<input type="checkbox"/> mentoring activities				
		<input type="checkbox"/> field course	<input type="checkbox"/> other				
Student obligations							
Come to class prepared by studying the recommended literature for each unit and actively participate in all forms of instruction. The student must participate in at least 70% of classes to pass the course.							
Monitoring student learning							
Attendance	x	Active participation	x	Seminar paper		Experimental work	

Written exam	x	Oral exam	x	Essay		Research	
Project		Continuous assessment		Paper		Practical work	
Portfolio							
Assessment and evaluation of students during class and on the final exam							
Students' performance will be evaluated during class and on the final exam. Students are evaluated numerically and descriptively (insufficient (1), sufficient (2), good (3), very good (4), excellent (5)). During classes, a student can earn a maximum of 100 points. Students can earn a maximum of 20 points during classes through different types of activities. On the final exam, students can earn a maximum of 80 points. The final grade represents the sum of the points earned during classes and on the final exam.							
Mandatory reading							
1. Siewert R, Stein H. Chirurgie. Springer; 2012							
Additional reading							
The number of copies of mandatory reading in proportion to the number of students currently taking this course							
<i>Title</i>		<i>Number of copies</i>			<i>Number of students</i>		
Siewert R, Stein H. Chirurgie. Springer; 2012		A purchased license for online textbooks shall be used https://bfdproxy48.bfd-online.de/login.htm?back=http%3a%2f%2fpartner.bfd-online.info.bfdproxy48.bfd-online.de%2fameos%2fbfdAboGateway%3fabold%3d264117 Access will be granted to all students enrolled in the study program					
Quality monitoring methods ensuring the acquisition of knowledge upon completion, skills and competences							
The quality of course performance is monitored through an anonymous student survey on the quality of the organization and conduction of classes, the course content and the work of professors. The usefulness of the lectures from the students' perspective, the curriculum content, the professor preparedness, the clarity of the presentation, the amount of new content and the quality of the presentation are evaluated. The curriculum and its execution are administratively compared. The participation of students in lectures and exercises, as well as the excuses for missing classes, are controlled and analyzed.							