GENERAL INFORMATION								
Course name	Surgery 2 – Cardiac Surgery							
Course director	Assoc. Prof. Goran Kondža, MD, PhD							
Assistants								
	Asst. Prof. Krunoslav Šego, MD, PhD							
Study program	Integrated undergraduate and graduate university study program Medical Studies in German							
Course status	Mandatory							
Year of study, semester	4 <sup>th</sup> year, 8 <sup>th</sup> semester							
Credits allocated and form of instruction	ECTS student workload	2						
	Number of teaching hours (L+S+E)	<b>30</b> (10+10+10)						

#### **COURSE DESCRIPTION**

# Course objectives

Acquaint students with indications for cardiac surgery, surgical techniques and preoperative assessments of surgical risk of cardiac surgery, the role of a cardiac surgeon in a cardiac team, preoperative and postoperative complications and their treatment, trends and future of cardiac surgery.

## **Course requirements**

There are no specific requirements for this course except those defined in the study program curriculum.

## Learning outcomes relevant to the study program

#### 1.1, 3.5

### **Expected learning outcomes** (5-10 learning outcomes)

#### Knowledge

- 1. Identify an indication for performing cardiac surgery:
- 2. Present differential-diagnostic possibilities based on clinical symptoms and signs of disease;
- 3. Identify the basic principles of treatment and map out the most appropriate type and sequence of therapeutic interventions;
- 4. Critically evaluate various invasive and non-invasive treatment methods of specific diseases and provide arguments to the patient;
- 5. Predict the appropriate prognosis of a disease and analyze the course, effects and outcomes of medical treatment;
- 6. Recognize diagnostic and treatment methods in accordance with the principles of "evidence-based medicine".

#### Skills

- 1. Demonstrate the ability to independently take a medical history, perform a clinical examination of the gastrointestinal system and determine a working diagnosis;
- 2. Identify the leading symptoms of gastrointestinal diseases and identify the correlation between these symptoms and specific clinical entities;
- 3. Recognize the symptoms of a life-threatening condition in a patient and present how to provide care for them:
- 4. Become proficient in discussing the clinical picture and interpreting the differential diagnosis;
- 5. Become proficient in interpreting and discussing the patients' diagnostic findings;
- 6. Carry out certain clinical skills independently in accordance with the Clinical Skills Handbook;

- 7. Under supervision, complete different diagnostic and therapeutic procedures as outlined in the Clinical Skills Handbook;
- 8. Demonstrate the means for managing diagnostic and therapeutic procedures and monitoring patients in accordance with appropriate procedures (algorithms);
- Keep patients' medical records;
   Participate in team interdisciplinary and multidisciplinary clinical work and demonstrate

good communication skills with the patients, their companions and staff;										
11. Cooperate effectively with a cardiac surgeon and provide him/her with the necessary										
information for cardiac surgery;										
12. Effectively monitor and provide care for cardiac surgery patients.										
Course content										
Preoperative preparation and surgical risk assessment;										
Indications for surgical treatment of patients with coronary diseases; Indications for surgical treatment of patients with heart valve diseases;										
							accular			
Indications for surgical treatment of patients with aortic conditions and peripheral vascular problems;										
Minimally invasive surgery;										
Robot-assisted cardiac surgery.										
□										
				rs and workshops   multimedia and Internet						
Form of instruction	ses 🐪 🔲 laboratory									
distanc						nentoring activities				
		☐field co	ourse		other					
Student obligatio	ns									
Come to class pre										
participate in all for	ms (	of instruction. T	he stude	nt must partic	ipate in	at least 70% of cla	sses to			
pass the course.										
Monitoring stude	nt le		1		1					
Attendance	x	Active	x	Seminar		Experimental				
		participation	, , , , , , , , , , , , , , , , , , ,	paper		work				
Written exam	Х	Oral exam	X	Essay		Research				
Project		Continuous		Paper		Practical work				
-		assessment		'						
Portfolio	0) (0)		lanta di i	 	d a.a. 4b.	final avam				
Assessment and										
Students' performa										
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										
1. Mann DL, Zipes DP, Libby P, Bonow RO. Braunwald's Heart Disease: A Textbook of										
Cardiovascular Medicine. Saunders; 2014										
2. Mirat J, Ćorić V et al.: Bolesti srčanih zalistaka [Heart Valve Diseases], Globus; 2012										
The number of copies of mandatory reading in proportion to the number of students										
currently taking this course										
Title				Number of c	opies	Number of stude	nts			
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%3faboId%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.