GENERAL INFORMATION							
Course name	Ultrasound and Other Imaging Methods in Clinical Practice 1						
Course director	Prof. Jure Mirat, MD, PhD						
Assistants	Prof. Ivica Mihaljević, MD, PhD						
	Prof. Robert Smolić, MD, PhD						
	Asst. Prof. Tamer Salha, MD, PhD						
Study program	Integrated undergraduate and graduate university study program Medical Studies in German						
Course status	Elective						
Year of study,	4 th year, 7 th semester						
semester							
Credits allocated	ECTS student workload	1					
and form of		15 (5+0+10)					
instruction	Number of teaching hours (L+S+E)	13 (3.0.10)					
COURSE DESCRIF	TION						
Course objectives							
The acquisition of	knowledge and skills regarding imaging	methods, their capabilities,					
limitations and ratio	nal choice in specific clinical situations.						
Familiarizing studen	its with the potential risks of using specific ima	aging methods and their place					
in clinical practice.							
Familiarizing studer	its with economic moments in the broad app	lication of imaging methods.					
Course requirement	nts						
There are no specif	ic requirements for this course except those	defined in the study program					
curriculum.							
Learning outcome	s relevant to the study program						
1.2., 2.1., 2.2., 2.3., 3.1., 3.2., 3.3., 3.4., 3.5., 4.1., 4.2.							
Expected learning	outcomes (5-10 learning outcomes)						
Upon successful co	mpletion of this course, the student will be al	ole to:					
1. Use imaging	methods in view of the expected capabilitie	s					
2. Assess the	risk eligibility						
Distinguish comparative advantages of individual imaging methods							
4. Understand	the place of individual imaging methods in e	xisting diagnostic algorithms					
5. Rationally use individual methods in view of economic aspects.							
Course content							
Classical propedeutics in light of modern imaging technology.							
X-ray diagnostics – scope and risks.							
Ultrasound diagnostics of vascular system, abdominal and thoracic structures.							
	⊠lectures						
	seminars and individual as						
Form of	Workshops	and internet					
instruction	Mayorcises Liaboratory	-41-141					
	│	ctivities					
	field course						
Student obligations							
Come to class prepared by studying the recommended literature for each unit and actively							
	ns of instruction. The student must participate						
pass the course.	1						
Monitoring student learning							
mornioning ottation fourthing							

Attendanc e	х	Active participatio n	х	Seminar paper	Experimental work	
Written exam	х	Oral exam	x	Essay	Research	
Project		Continuous assessmen t		Paper	Practical work	
Portfolio						

Assessment and evaluation of students during class and on the final exam

Oral and written 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 (at the time of submission of study program proposal)

- 1. Schäberle W. Ultraschall in der Gefäßdiagnostik. Springer; 2016
- 2. Schmidt G, Görg C Kursbuch Ultraschall Nach den Richtlinien der DEGUM und der KBV. Thieme; 2015
- 3. Hohn HP, Scheperjans U, Schumann S. Ultraschallanatomie des Abdomens Ein Basiskurs der Sonografie. Lehmanns Media; 2018

Additional reading (at the time of submission of study program proposal)

The number of copies of mandatory reading in proportion to the number of students currently taking this course

Title	Number of copies	Number of students		
1. Schäberle W. Ultraschall in	A purchased license for online textbooks shall be used			
der Gefäßdiagnostik. Springer;	https://bfdproxy48.bfd-			
2016	online.de/login.htm?back=http%3a%2f%2fpartner.bfd-			
2. Schmidt G, Görg C Kursbuch	online.info.bfdproxy48.bfd-			
Ultraschall Nach den Richtlinien	online.de%2fameos%2fbfdAboGateway%3faboId%3d2641			
der DEGUM und der KBV.	<u>17</u>	•		
Thieme; 2015	Access will be granted to	all students enrolled in the study		
3. Hohn HP, Scheperjans U,	program			
Schumann S.				
Ultraschallanatomie des				
Abdomens Ein Basiskurs der				
Sonografie. Lehmanns Media;				
2018				

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.