GENERAL INFORMATION

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Course name	Sports Cardiology								
Course director	Prof. Jure Mirat, MD, PhD								
Assistants	Prof. Kristina Selthofer-Relatić, MD, PhD								
	Assoc. Prof. Goran Krstačić, MD, PhD								
Study program	Integrated undergraduate and graduate university study program Medical Studies in German								
Course status	Elective								
Year of study,	4 th year, 8 th semester								
semester									
Credits allocated	ECTS student workload	1							
and form of instruction	Number of teaching hours (L+S+E)	15 (5+5+5)							
COURSE DESCRI	č (,								
Course objectives	of an athlete's heart in anatomical and ele	atrophysiological concets and							
	to different forms of physical stress.	ciropitysiological aspects and							
	entities associated with the risk of sudden de	ath in athletes and diagnostic							
	tocols in their identification and treatment.	sati in athletes and diagnostic							
Course requireme									
	ic requirements for this course except those	defined in the study program							
curriculum.		active in the study program							
	s relevant to the study program								
1.2., 2.1., 2.3., 4.2.									
Expected learning outcomes (5-10 learning outcomes)									
1. Differentiating between different anatomical and electrophysiological variations of an									
athlete's heart.									
2. Define risk factors for sudden cardiac death.									
3. Assess the	3. Assess the risk of sudden cardiac death.								
4. Pharmacological possibilities in preventing sudden cardiac death.									
5. Non-pharmacological possibilities in preventing sudden cardiac death.									
Course content									
	of cardiovascular system under load								
2. Anatomical and electrophysiological heart remodeling to physical stress									
3. Hypertrophic cardiomyopathy									
	Arrhythmogenic right ventricular dysplasia								
5. Prolonged QT interval in different variants									
6. Brugada syndrome									
7. Coronary disease and sport									
 Heart valve diseases and sports Arrhythmias and sport 									
9. Arrnythmias and sport 10. Cardiac societies' guidelines for sport									
		dual assignments							
		nedia and internet							
Form of	A service and workshops I induiting A service and workshops I induiting A service and the serv								
instruction		bring activities							
	field course								
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								
Attendanc e	х	Active participatio n	x	Seminar paper		Experimental work		
Written exam	х	Oral exam	x	Essay		Research		
Project		Continuous assessmen t		Paper		Practical work	x	
Portfolio								
				students during class				
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								
			nie S	pringer Berlin Heidelber	ra: 201	5		
Additional			<i>j</i> ic. 0	pringer Denin rieldelber	<u>g, 201</u>	0		
Exercise Ph European S 2. Paolo Ze 3. Zipes Jal 4. Mirat J, 0 2011 The number	nysi oci ppil ife 2 Cori er c	ology and the ety of Cardiolo li P. Cardiolog Z. Cardiac Ele ć V. Bolesti sr of copies of r	e Wo ogy. E gia de ectrop cčanih nand	rking Group of Myocar European Heart Journal Ilo Sport. Casa editrice hysiology. From Cell to zalistaka [Heart Valve	dial ar 205;20 scienti bedsic Diseas	fica internazionale.	of the obus.	
Title		ng this cours	e	Number of copies		Number of students		
A <u>h</u> Niebauer J. Sportkardiologie. <u>o</u> Springer Berlin Heidelberg; 2015 <u>o</u> <u>1</u> A			A purchased license for online textbooks shall be used <u>https://bfdproxy48.bfd-</u> <u>online.de/login.htm?back=http%3a%2f%2fpartner.bfd-</u> <u>online.de%2fameos%2fbfdAboGateway%3fabold%3d264</u> <u>117</u> Access will be granted to all students enrolled in the study program					
-		-	ds en		n of kr	nowledge upon comple	etion,	
skills and o			10000	is monitored through a	nonor	nymous student survey o	n the	
quality of the professors. content, the and the qual administration	ne o Th pro ality vely	organization a e usefulness ofessor prepar y of the pres / compared. T	and c of th edne entat he pa	onduction of classes, t e lectures from the str ss, the clarity of the pres ion are evaluated. The	he cou udents sentatio e currio in lectu	rymous student survey c rse content and the wo perspective, the curric on, the amount of new co culum and its executio res and exercises, as w	ork of culum ontent n are	