РНҮ	SIOLOGY OF SPORT			
GENERAL INFORMATION				
Course coordinator	Professor Ines Drenjančević, MD, PhD			
Assistant/Associate	Assoc. Prof. Ana Stupin, MD, PhD			
	Asst. Prof. Aleksandar Kibel, MD, PhD			
	Asst. Prof. Marko Stupin, MD, PhD			
	Asst. Prof. Ivana Jukić, MD, PhD			
	Asst. Prof. Zrinka Mihaljević, PhD			
	Petar Šušnjara, MMedLabDiag			
Study Programme	Integrated undergraduate and graduate university study of Medicine			
Status of the course	Elective			
Year of study, semester	5th year, 10th semester			
ECTS	2			
Workload (hours)	Lectures (4); Seminars (4); Exercise(17)			
Expected number of students	30			
COURSE DESCRIPTION				
Course objectives				
exposed to physical exertion in sports activities and to present the methods used to assess this adaptation. The mechanisms of maintaining homeostasis in the organism at rest will be compared in comparison with the organism that exercises. The basic principles of sports training will be presented, and references will be made.				
Enrolment requirements and entry competencies				
Passed exams from last years, passed physic	ology exam			
Learning outcomes at the Programme leve	l			
1.1., 2.1, 3.5, 4.2				
Learning outcomes (5-10)				
 Present structural and functional physiological adaptations of the organism exposed to physical exertion within sports activities Critically evaluate the methods used to assess that adaptation. Compare the mechanisms of maintaining homeostasis in the organism at rest in comparison with the organism that exercises. Present the basic principles of sports training, Evaluate scientific literature in the field of sports physiology 				
Course content				
Lectures Introduction to the physiology of sport. Adaptation of the cardiovascular and respiratory systems to physical activity. Seminar				
Indirect estimation of maximum oxygen uptake. Basic principles of sports training. Exercises				
Astrand test. Fundamentals of electrocardiography in sports physiology. Assessment of lung function using spirometry. Celemetry. Eurofit.				
Mode of teaching				

Lectures, Seminars; Laboratory exercises

Student obligations

Attendance at all forms of classes is mandatory, and the student must access all knowledge tests. A student may justifiably miss 30% of each form of instruction. Unfinished exercise must be colloquial. **Monitoring student work** (alignment of learning outcomes, teaching methods and grading)

Teaching activity	ECTS	Learning	Student activity	Assessment	Grade points	
		outcome		methods	Min.	Max.
Class attendance	0,5	1-5	Class attendance	Attendance list	5	20
Laboratory exercises	0,5	1-5	Attendance and active participation in exercises	Laboratory notes	15	30
Final exam	1,0	1-5	Learning for the oral exam	Oral exam	30	50
Total	2				50	100

Evaluation of the final exam:

Student answer	Grade points	
The answer meets the minimum criteria	30.0	
The average answer with noticeable errors	37.0	
The very good answer with minor errors	44.0	
The exceptional answer	50.0	

Calculation of final grade:

Students who obtained 30 or more points on the final exam, the points obtained on the final exam are added to the grade points obtained during the class, and this sum constitutes the final grade. Given that the study program provides for the descriptive evaluation of elective courses, the subject holder assigns a grade of "passed" at the end to a student who achieves 50 or more grade points in the course.

Required reading (available in the library and through other media)				
Title	Number of	Availability		
	copies in the	through other		
	library	media		
1. J.H., Costill D.L., Kenney W.L.: Physiology of Sport and	0			
Exercise, 8th Edition, Human Kinetics, 2021., odabrana				
poglavlja				
2. Guyton i Hall, Medicinska fiziologija, Medicinska naklada,				
13.izdanje, 2017.	15			
Additional reading				
1. Heimer S., Čajavec R.: Medicina sporta, 1. izdanje, KIF Sveučilišta u Zagrebu, Zagreb, 2006.,				
odabrana poglavlja				

Course evaluation procedures

Anonymous, quantitative, standardized student survey on the subject and work of teachers conducted by the Office for Quality of the Medical Faculty Osijek.

Note /Other

E-learning is not included in the norm of subject hours, but it is used in teaching and contains links to various pages, video and audio materials available on the website.