NAME OF THE COU	JRSE	Exercise physiology					
Code			Year of study	1 st year of graduate studies			8
Course teacher	Assistar Nikolov	nt professor, Zoran rski PhD	Credits (ECTS)	3			
Associate teachers			Type of instruction	L	S	Е	F
			(number of hours)	30	15		
Status of the course	Elective		Percentage of application	20%			
Status of the course			of e-learning				
		COURSE	DESCRIPTION				
Course objectives	To improve understanding of the physiological processes in human body during work and exercise To understand importance of exercise physiology in the training prescription and performance optimization To recognize importance of exercise physiology in physical activity for health and fitness						
Course enrolment requirements and entry competences required for the course	General Physiology and Anatomy Intermediate knowledge of English language						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 At the completion of this course, students will be able to do the following: to expand specific knowledge in the field of exercise physiology; to understand physiological response to exercise and apply this knowledge in exercise prescription; to critically evaluate methodologies in scientific experimentations; to understand how to transfer knowledge gained in laboratory experimentation to the field environment 						xercise ne field
	Seminar				Teacher		
Course content broken down in detail by weekly class schedule (syllabus)	Fundamentals of exercise physiology (2 hour).			Assi N	sistant professor, Zoran Nikolovski MD PhD		
	Bioenergetics for movement (4 hours).			Assistant professor, Zoran Nikolovski MD PhD)))
	Skeletal muscle and contraction (4 hours).			Nikolovski MD PhD))
	Pulmonary adaptations to exercise (4 hours).			Assistant professor, Zoran Nikolovski MD PhD			
	Cardiovascular adaptations to exercise (5 hours).			Assistant professor, Zoran Nikolovski MD PhD			
	Integrated neural and hormonal control of exercise (4 hour).			Assistant professor, Zoran Nikolovski MD PhD			
	Nutrition and ergogenic aids for sports performance (5 hours).			Assistant professor, Zoran Nikolovski MD PhD			
	Training for performance (5 hour).			Assistant professor, Zoran Nikolovski MD PhD			

	Exercise and en	vironment	Assistant professor, Zoran Nikolovski MD PhD				
	Energy balance	, body con	Assistant professor, Zoran Nikolovski MD PhD				
	Disease and exe	ercise press	Assistant professor, Zoran Nikolovski MD PhD				
	x lectures x seminars and w	vorkshops		 independent assignments multimedia 			
Format of instruction	\Box exercises						
	□ <i>on line</i> in enti	rety		\square work with mentor			
	x partial e-learnin	ng		□ (other)			
	\Box field work						
Student responsibilities	Course attendance	ce, homewo	ork through act	tive learning, exa	ım		
Screening student work (name the	Class attendance	1	Research	0.5	Practical training	g	
proportion of ECTS credits for each	Experimental work	Report 0		0.5	(Other)		
activity so that the	Essay		Seminar essay	y 0.5	(Other)		
total number of ECTS	Tests		Oral exam		(Other)		
credits is equal to the ECTS value of the course)	Written exam		Project	0.5	(Other)		
Grading and evaluating student work in class and at the final exam	The final grade is defined on a basis of sub-grades and final oral exam. Sub grades are earned throughout homework exams carried out during the course, each consisting of -having group discussion of the topics heard at the theoretical classes, -evaluate and analyze each theoretical class in groups and present them before next theoretical class -teaching other students of topics from syllabus, -having group discussions and understanding of scientific papers Each activity is evaluated separately and grades are cumulative sum of all activities. Oral exam is mandatory only if student wants to earn the grade 5 (excellent)						
Required literature					Number of		
Required literature]	Fitle		copies in the library	Availability via other media	
Required literature (available in the]	ſitle		copies in the library	Availability via other media	
Required literature (available in the library and via other		1	Fitle		copies in the library	Availability via other media	
Required literature (available in the library and via other media)			Fitle 		copies in the library	Availability via other media	
Required literature (available in the library and via other media)			Fitle		copies in the library	Availability via other media	

Optional literature (at the time of submission of study programme proposal)						
Quality assurance methods that ensure the acquisition of exit competences	Attendance and active learning grades. Research, reports, seminar essays Oral examination at the end of the classes (occasionally). External evaluation of teaching quality through 'Questionnaire for student's evaluation of teaching'.					
Other (as the proposer wishes to add)						