Subject	Exercise Physiology				
Туре	Туре	Semester	ECTS		
	MANDATORY (M)	III	4		
Lecturer	Dr. Sc. Masar Gjaka				
Aims and Objectives	The course will provide students an introduction into the fundamentals of the physiological adjustments that occur within the body during exercise. Furthermore, this course will be particularly oriented toward a basic understanding of the physiological systems as they are affected by the activity of a normal coaching or teaching situation.				
Learning Outcomes	On the completion of this course, students will: ✓ Gain knowledge and understanding how the human body responds and adapts to physical activity and exercise and which energy systems are involved. ✓ Understand the changes in cardiac output, heart rate, and stroke volume during exercise. ✓ Apply exercise physiology principles to design effective training programs. ✓ Understand how human body reacts to acute stress caused by exercise and how it adapts itself to chronic stress caused by permanent exercise practice. ✓ Explain the theoretical principles and physiological mechanisms that underpin the body's response and adaptation to the stimulus of exercise in a variety of environments.				
Content	2 Introduction to exercise physical 3 Structure and function of structure and muscles and metabol 5 Nervous control and muscles Hormonal control during extra 1 Energy expenditure and far 1 Structure 2 Cardiovascular system and 1 Structure 2 Reactions of the cardiores 1 Adaptations to resistance 1 Adaptations to aerobic and 1 Physiological reactions to conditions 14	response and adaptation to the stimulus of exercise in a variety of environments. Peek Topics Presentation of the subject Introduction to exercise physiology Structure and function of skeletal muscles Bioenergetics and metabolism during exercise Nervous control and muscles Hormonal control during exercise Mid-term exam – 1 Energy expenditure and fatigue Cardiovascular system and its regulation Reactions of the cardiorespiratory system Adaptations to resistance exercises Adaptations to aerobic and anaerobic training Physiological reactions to acute or chronic exercises in different environmental conditions Body composition and nutrition in sports			
Teaching/Learnin g Methods	Activity Lectures Lab Research Independent learning		Weight (%) 40% 40% 10% 10%		
Assessment Methods	Methods of assessment: Participation a) Mid-term exam -1 b) Mid-term exam - 2 Seminars Individual and group work Final exam		10% 10% 20% 20% 10% 10% 30%		

	Resources		Number	
Resources	Lectures		1	
	Presantations		1	
	Web of science		1	
	PubMed		1	
	Scopus		1	
ECTS Workload	Activity	Weekly hours	Workload	
	Lectures	2	24	
	Lab	1	12	
	Independent learning	n/a	44	
	Examination preparation	n/a	20	
Literature	 Klissouras V. Fundamentals of Sport and Exercise Physiology. A guidebook prepared for students of the Training of Trainers Program in Physical Education and Sport. European Union Office Kosovo, Pristina 2013 (translated into Albanian language). Kenney WL, Wilmore JH, Costill DL. Physiology of Sport and Exercise (5th ed.). Human Kinetics. Champaign, IL (2012). Beside the indicated books, scientific publications relevant to the field will be used to prepare the lectures, which will be made available for students through the moodle platform. 			
Ethical standards	This course follows UBT College's Code of Ethics, requiring all students to behave accordingly. Any case of academic misconduct, including but not limited to cheating, plagiarism, or other forms of dishonesty, will lead to significant punishment such as failure of the specific assessment or the entire course, as well as further disciplinary measures in accordance with UBT College's academic integrity policies.			
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