Subject	Biomechanics		
Туре	Туре	Semester	ECTS
	MANDATORY (M)	III	4
Lecturer	Dr.Sc. Milaim Berisha		
Aims and Objectives	The aim of the course is to provide a general knowledge about the concept of biomechanics and its applicative benefits in sports and movement science. Thus, the course aims to enable students to understand the human mechanics and relationships with the body compositional and motor skills features		
Learning Outcomes	 Upon completion of this module, students shall be able to: Understand the concepts of Biomechanics Explain the general concepts of human mechanics Explain the benefits of biomechanic in sports and movement science Explain the human mechanics and body compositional features relationships Explain the human mechanics and motor skills features relationships 		
Content	WeekTopicsSyllabus presentation1Definition and classification of Biomed2Content and terminology of Biomed3Linear movements kinematics4Angular movements kinematics5Projectiles6Newton Laws and force conceptMid-term exam – 17Energy, power and force8Momentum concept9Momentum and impulse10The center of gravity11Inertia12Biomechanics laws in sports and mMid-term exam – 2	chanics	
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 Lab Task		% 10% 20% 20% 10% 40%
Resources	Task Resources Lectures Presantations Web of science PubMed Scopus		Number 1 1 1 1 1 1 1 1
ECTS Workload	Activity Lectures Lab Independent learning Examination preparation	Weekly hours21n/an/a	Workload 24 12 44 20

Literature	 Chapman, A. E. (2008). Biomechanical analysis of fundamental human movements. Human Kinetics. Robertson, G. E., Caldwell, G. E., Hamill, J., Kamen, G., & Whittlesey, S. (2013). Research methods in biomechanics. Human kinetics. Serbest, K., Berisha, M., & Cilli, M. (2018). Dynamic analysis of three different high bar dismounts in the simmechanics environment. <i>Journal of Mechanics in Medicine and Biology</i>, <i>18</i>(03), 1850030. Berisha, M. (2021). A biomechanical examination of the inclusion of active flexibility in artistic gymnastic movements requiring mobility. <i>Pedagogy of Physical Culture and Sports</i>, <i>25</i>(5), 267-274. Berisha, M. (2021). A biomechanical examination of the inclusion of active flexibility in artistic gymnastic movements requiring mobility. <i>Pedagogy of Physical Culture and Sports</i>, <i>25</i>(5), 267-274. 	
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.	
Contact	milaim.berisha@ubt-uni.net	