# **COURSE INFORMATION SHEET**

University: Catholic Faculty: Faculty of H	University in Ružomberok
Faculty: Faculty of H	
	Health
<b>Course code:</b> KFYZIO/54F2001W	Course title: Human Biomechanics
Form of instruction Recommended stud hours weekly: 3 ho Teaching method:	dy range: urs per semester: 36
Credits: 3	
Recommended seme	ester/trimester: 1.
Level of study: II.	
Prerequisities:	
During the semester: practice. To participa Final evaluation: wil the oral exam. Course evaluation:	s 10% of the evaluation in the final evaluation of the subject. there will be two written examinations in class and two oral examinations in ate in the exam, it is necessary to obtain 60% of the examinations. If be based on the total number of points obtained from the examinations and
A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% FX – 59%- 0% Learning outcomes	

Lectures:

- 1. Introduction to biomechanics
- 2. Human Locomotor system

- 3. Parameterization of the human musculoskeletal system
- 4. Biomechanical properties of soft tissues
- 5. Biomechanical properties of hard tissues
- 6. Biomechanics of joints
- 7. Biomechanics of the spine
- 8. Biomechanics of upper limbs
- 9. Biomechanics of the lower limbs
- 10. Osteosynthesis material
- 11. Repositioning systems
- 12. OKC- open chains and CKC- closed chains

## **Recommended or required literature:**

- 1. ŽIVČÁK, J., HUDÁK, R. Biomechanizmy. Prešov, 2001. ISBN 80-89-040-06-3
- 2. ŽIVČÁK, J., HUDÁK, R. Biomechanizmy. Sluchové stimulátory. Prešov, 2002.
- 3. ŽIVČÁK, J. a kol. Základy bioniky a biomechaniky. Prešov, 2005.

## Language of instruction:

Slovak language

## Notes:

The subject is taught only in the winter semester and is evaluated only in the relevant examination period of the winter semester of the academic year.

## **Course evaluation:**

Assessed students in total: 74

	1						
A	В	C	D	E	FX		
40.54	25.68	25.68	5.41	1.35	1.35		
Name of lecturer(s): Mgr. Ivana Aštaryová, PhD.							

Last modification: 25.11.2020

Supervisor(s): prof. MUDr. Anna Lesňáková, PhD.