COURSE INFORMATION SHEET

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University: Catholic University in Ružomberok						
Faculty: Faculty of Health						
Course code: KFYZIO/54F1031W/	Course title: Kinesiology and Pathokinesiology 1 17					
Type and range of pl Form of instruction Recommended stud hours weekly: 2 hou Teaching method: co (distance method acc	anned learning activities and teaching methods: a: Lecture ly range: urs per semester: 24 on-site cording to the document Príkaz rektora P-8/2020 since 15. 10. 2020)					
Credits: 3						
Recommended semester/trimester: 3.						
Level of study: I.						
Prerequisities:						
Requirements for part Conditions for passing The controlled self-s and its presentation, for During the semester: Final rating will be by Subject rating: A - 100%-93% B - 92%-85% C - 84%-77% D - 76%-69% E - 68%-60% FX - 59%-0%	Issing the course: Ig the subject: tudy is carried out by assigning and elaboration of the final semestral work forms 10% of final rating. continuous writing inspection, from which is necessary to get 60% points. ased on successfully mastered writing inspection and verbal exam.					
Learning outcomes of Learning outcomes: The aim of the subject To understand and to understand function	of the course: et: o acquire the principle of movement control. To gain the overview and to of the joints, thorax, spine. To recognize malformation and malfunction. To					

to muscle chains. Theoretical knowledge:

Student analyzes the engagement of skeletal muscles to muscle chains. Identifies patological patterns and stereotypes. Describes the motion control of central and peripheral nervous system. Identifies and evaluates the impact of central nervous system disorders at performing will movements.

understand the walking stereotype and pototype activities and engagement of the skeletal muscles

Practical skills:

Student performs the kinesiological analysis. Assesses a degree of damage of will movement. Documents the deviations from physiology. Suggests kinesiotherapeutic plan and programe for renewal of will movement.

Course contents:

Brief subject scheme:

1. Movement as the basic manifestation of living, movement behavior, the impact of movement for life pocesses, , external environment and society, relationships, sport and motion compensation.

2. Connective tissues structure and function: ligament, cartilage, bone. Morfology, physiology,

growth and evolution, nutrition, biomechanics, defects and regeneration of individual tissue types.

3. Continuous and contact bone connesctions – structure, movements.

4. Individual joint parts biomechanics nutrition, inervation, joint afference.

5. Pathological changes and individual joint parts regeneration.

6. Muscle tissue- structure, action potenntial and muscle tissue contraction mechanism, myoneural disc, types of muscle tissue.

7. Skeletal muscle- structure, muscle and bone connection.

8. Bursas, sheaths, fascias, vasculat supply, senzoric organs a nerve endings in the muscle, muscle tension and muscle consistency.

9. Functions of muscle tissue in patological conditions, regeneration abilities.

10. Neurone, body, protrusions, receptor, conductive and exciting membrane.

11. Depolarization, excitement, synapse, integration and coding function of the neuron.

12. Output part of the cell, efector, metabolic neuron requirements, damage and possibilities of regeneration of nervous tissue.

Recommended or required literature:

1. DYLEVSKÝ, I.: Kineziológie. Triton, Praha 2009

2. DYLEVSKÝ, I.: Obecná kineziológie. Grada, Praha 2009

3. GÚTH, A. a kol.: Vyšetrovacie metodiky v rehabilitácii pre fyzioterapeutov, LIEČREH GÚTH Bratislava.

4. KOLÁŘ, P. : Rehabilitace v klinické praxi. Galen, Praha 2010.

5. VÉLE, F.: Kineziológie. Triton, Praha 2006

Language of instruction:

Slovak language

Notes:

The course 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: 123

А	В	С	D	Е	FX
26.02	27.64	18.7	15.45	12.2	0.0

Name of lecturer(s): prof. MUDr. Anna Lesňáková, PhD., Mgr. Alexandra Melišová

Last modification: 11.03.2021

Supervisor(s): doc. PhDr. Zuzana Hudáková, PhD.