

Sveučilište u Rijeci • University of Rijeka

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Table 2

Course coordinator

3.2. Course description

Basic description

Doc. dr. sc. Stanislav Peharec

Course title	Neurophysiology of locomotion				
Study programme	Physiotherapy graduated study				
Course status	compulsory				
Year	2				
ECTS credits and teaching	ECTS student 's workload coefficient Number of hours (L+E+S)	3,5 15+10+30			
1. COURSE DESCRIPT	ION				
1.1. Course objectives	S				
	nt in neurophysiology of locomotion and motor co asurement of Kinetic variables. Measurement of N				
1.2. Course enrolmen	t requirements				
- Course enrolment	requirements include				
1.3. Expected course	learning outcomes				
system. Use of ground read	erties of locomotion measurement system and requiction force measuring platforms and pressure distributed in the distributed and pressure distributed in the distribu	ibution measurement systems. Aplication			
1.4. Course content					
electromyography. Anatomy descending pathways, must monosynaptic reflexes, oligimovements. Motor control, eye movement and vision, wethods of measurement of	tential, information transmission, skeletal muscle, y of nervous system: brain anatomy, cerebral cortecte memory, spinal memory and motor learning. E osynaptic and polysynaptic reflexes, voluntary commotor synergies, postural control, locomotion, mulkinesthesia, Fatigue. Kinematic: methods of measure f kinetic variables. Surface electromyography, mydion of surface electromyography.	ex, cerebellum, basal ganglia, ascending and excitation and inhibiton within spinal cord, utrol of single muscle, single-joint ti-joint movement, hand joints and muscle, urement of locomotion kinematics, Kinetics:			
1.5. Teaching methods	□ x lectures □ □ x seminars and workshops □ □ x exercises □ □ long distance education □ □ fieldwork □	x individual assignment multimedia and network laboratories x mentorship other			
1.6. Comments	Most teaching is carried out through field	d work			



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1.7. Student's obligations

Regular attendance to lectures, seminars and exercises. Preparation of the course content to be discussed during seminars and practicals.

1.8. Evaluation of student's work

Course attendance	5%	Activity/Participation	10%	Seminar paper	Experimental work	
Written exam	10%	Oral exam	20%	Essay	Research	
Project		Sustained knowledge check	55%	Report	Practice	
Portfolio						

1.9. Assessment and evaluation of student's work during classes and on final exam

Evaluation would be performed according the actual Rules on studies of University of Rijeka (approved by the Senat) and the Faculty of medicine (approved by the Faculty council). In this system, the overall students' outcome is made up 70% of their achievement during the course itself and 30% of the success in the final exam.

Achievements during the course will be evaluated by: a) sustained knowledge check (partial tests, partial exams and other activities in classes), b) activity during the course, c) seminar paper or presentation, d) course attendance

1.10. Assigned reading (at the time of the submission of study programme proposal)

Study programs, which are outside of recommended books, will be presented as additional literature on web pages or share portal of the Department.

- 1.11. Optional / additional reading (at the time of proposing study programme)
- 1) Latash ML: Neurophysiological Basis of Movement. Human Kinetics. USA, 2008.
- 2) Medved V: Measurement of Human Locomotion CRC Press New York, 2001.
 - 1.12. Number of assigned reading copies with regard to the number of students currently attending the course

Title	Number of copies	Number of students			
1.13 Quality monitoring methods which ensure acquirement of output knowledge, skills and competences					