Program of Study	**:**	General Medicine
Course	**:**	Clinical Rehabilitation
Abbreviation	**:**	NEU/VA042
Schedule	**:**	10 hours of seminars
		10 hours of practical training
Course Distribution	**:**	4th year, 7th or 8th semester
Number of Credits	**:**	1
Course Form	**:**	Seminars, practical training

Seminars and practical trainigs:

Teachers :	MUDr. Petr Kolář, Ph.D. Prof. MUDr. Ing. Petr Hluštík, Ph.D. PhDr. Mgr. Barbora Kolářová, Ph.D. Mgr. Jiří Stacho Mgr. Marek Tomsa MUDr. Jiří Horníček MUDr. Rudolf Ditmar MUDr. Bronislava Schusterová Mgr. et Mgr. Petra Bastlová, Ph.D. MUDr. Nicole Musilová MUDr. Martin Jochec Mgr. Hana Haltmar	
Study :	Block, Department of Rehabilitation 8:00 - 9:30 joint seminar (Theoretic Institute – new building, room number - follow the website) 10:00 - 11:45 practical exercises at the Department of Rehabilitation and Kinesiological Laboratories (group divided into two parts)	
Block Date:	**28.11. 2022** **12.12. 2022** **20.02. 2023** **15.05. 2023**	**(TD 2.520/21/18)** **(TD 2.520, 2.518/21)** **(TD 2.518)** **(TD 2.520/17)**

Block Day	Subject (of the seminars)	No. of Less.
1	Introduction to rehabilitation, definition of concepts, rehabilitation concept in the Czech republic.	2
2	Functional movement disorders. Clinical applications from neurophysiology and kinesiology.	2
3	Basic principles of neurorehabilitation. Computed and robotic rehabilitation technologies.	2
4	Invasive rehabilitation and therapeutic modalities	2
5	Mechanisms of adaptive neuroplasticity, motor learning in rehabilitation therapy in neurological patients.	2
Block Day	**Subject (of practical exercises)**	**No. of Less.**
1	Kinesiologic laboratory, demonstration of robotic rehabilitation technologies.	1+1
2	Demonstration patients of rehabilitation department, rehabilitation examination (posture and motion assessment) Manipulative Therapy: Musculoskeletal Medicine: Karel Lewit	1+1
3	Demonstration patients of rehabilitation department, rehabilitation examination Manipulative Therapy: Musculoskeletal Medicine: Karel Lewit	1+1
4	Practical Functional Examination and Demonstration of acute rehabilitation of a patient with a ventilation and posture disorder.	1+1
5	Education of optimal dual mechanisms of breathing, posture and walking. Final interview.	1+1

Completed by : Credit, examination

Requirements : 100% attendance on all seminars and practical lessons
practical examination of posture and motion assessment and successfully passed theoretical exam is required to obtain grade and credits

Any absence at seminars or practical lessons must be communicated in advance to MUDr. Petr Kolář, Ph.D., e-mail: petr.kolar@fnol.cz or to PhDr. Barbora Kolářová, Ph.D., e-mail: barbora.kolarova@upol.cz
Absence due to serious personal or health matters can be compensated for by attending a corresponding lesson in a future study block

Literature :

Dietz, V., Ward, N.S.: Oxford textbook of neurorehabilitation. Oxford University Press, 2015, ISBN: 9780199673711

Nelson, A. et al.: Stretching Anatomy. Human Kinetics, 2007, ISBN10: 1-4504-3815-6

Page, P. et al.: Assessment and Treatment of Muscle Imbalance: The Janda Approach. Human Kinetics, 2010, ISBN-13: 9780736074001

Taub, E. (ed.): Neuroplasticity and Neurorehabilitation. Frontiers E-books, 2015, ISBN: 978-2-88919-392-9

Richards, J.: Biomechanics in Clinic and Research. Elsevier, 2008, ISBN-13: 978-0443101700