Faculty	v	WWFiZ	Subject name		lotor learning and rmance (WF/I/st/46)	
Field of study Number of hours		al education 30	Study year/term ECTS points	perfo	3/6 6	
Subject type* Study level** Preliminary and add	fu itional No requirement	ligatory Ill-time ts.	Language Subject form***		English classes	
requirements (e.g. p subjects) Subject objective	previous		e students to gain know	wledge in the first	d of the theory of	
object objective	teaching and le	arning complex mot	e students to gain know or skills. URSE LEARNING OUTC		o or the theory of	
nowledge	after comple S_K01. Student	ting this subject, the s will know the basic	e student will be able s of the structure and ophysiological mechan	to: I functioning of hu	uman organs. They	
	(K_W01/P6U_V S_K02. Student	(K. W01/P6U_W/P65_WG). 5_K02. Students will know theories and models of motor control. They will have general knowledge motor learning (K. W07/P6U_W/P65_WK, K. W10/P6U_W/P65_WG).				
škills	sports educatio process of teach K_W26/P6U_W	5_103. They will know the means, methods and forms of education, teaching and learning in sports education. They will be able to discuss and sected ensemts of didactic structure in the process of teaching (K_WOZ)/PEJ_W/PES_WK, K_W120/PEJ_W/PES_WG, K_W256/PEJ_W/PES_WG).				
kiiis	learning motor	learning motor skills (K_U06/P6U_U/P65_UW, K_U17/P6U_U/P65_UO). S_S02. Students will be able to perform motor skills and to create linear algorithms in				
	particular phase teaching (K_U2	particular phases of developing motor habits and applying methods, forms and means of teaching (K_U21/P6U_U/P6S_UW, K_U22/P6U_U/P6S_UW).				
	and difficulty a	5_503. Students will be able to perform a set of exercises, modify them in terms of complexity and diffficulty as well as teach using different theories of teaching and learning motor skills (K_U21/P6U_U/P6S_UW, K_U22/P6U_U/P6S_UW).				
ocial competences	health of class	5_SC01. When performing individual and team tasks, students are responsible for security and health of class participants. They reject activities that pose health and life risks (k knol/height k/pos SK k) Knol/height k/pos Kk)				
	S_SC02. Studen	(K_K08/P6U_K/P6S_KO, K_K09/P6U_K/P6S_KR). S_SC02. Students take up activities connected with self-education independently. They are aware of their own limitations and know when to address their teacher				
onfirmation of achi	(K_K07/P6U_K)	(K_K07/P6U_K/P6S_UK/P6S_KR).				
earning outcomes#						
Type of assesment r	nark## Final assessmen	nt mark, support ass	Subject form (number of hours)	Subject learni	ng Course learning	
L. An introduction to	the classes (learning outco	mes, passing	classes (2)	outcomes S_K01, S_SC01,	outcomes K_W01, K_K07,	
	learning (definition of term		classes (2)		K_W01, K_W07,	
field, key players and motor control landmarks, why study motor control?). 3.Classification of skills (definition of terms, task perspective skill		classes (2)		K_W10, K_U06, K_U17, K_K07 K W01, K W07,		
classifications, classification from a performance proficiency perspective, movement terminology).		Liasses (2)	S_K01, S_K02, S_S01, S_SC02	K_W01, K_W07, K_W10, K_U06, K_U17, K_K07		
<ol> <li>Measurement and assessment in motor learning and control (Outcome measures, performance measures, developing technologies, measuring learning).</li> </ol>		classes (2)	S_K02, S_K03, S_S01, S_S02, S_SC01	K_W07, K_W10, K_W26, K_U06, K_U17, K_U21, K_U22, K_K08,		
	ng and control (Reflex theori f learning and control (Dyna		classes (2)	Building         Subject learning           Subject learning         Course learning           Anothy them in terms of comp         freaching and learning motor sk           adents are responsible for securit         se heath and life risks           elexation independentity. They as         se heath and life risks           adents are responsible for securit         se heath and life risks           adents are responsible for securit         se heath and life risks           adents are responsible for securit         se heath and life risks           adents are responsible for securit         se heath and life risks           status for the responsible for securit         se heath and life risks           status for the responsible for securit         se heat teaching and life risks           status for the responsible for securit         se heat teaching and life risks           status for the responsible for securit         se heat teaching and life risks           status for the responsible for securit         se heat teaching and life risks           status for the responsible for securit         se heat teaching and life risks           status for the responsible for securit         se heat teaching and life risks           status for the responsible for securit         se heat teaching and life risks           status for the responsite for theat teaching and life risks         se heat teac	K_K09 K_W01, K_W07, K_W10, K_U06,	
heories). Theories of heories).		ayacerns			K_U17, K_K08,	
. Theories of learnin tructure hypothesis	ng and control (Ecological th ).	eories, coordinative	classes (2)		K_W01, K_W07, K_W10, K_U06, K_U17, K_K08,	
7. Information processing (Basic concepts, reaction time and movement time, simple, discriminative, choice and recognition reaction time, factors affecting reaction time, movement time and RTMS law). S. Sensory contributions to control (Proprioception and movement, the role of proprioception, exteroceptive information).		classes (2)		K_K09 K_W01, K_W07,		
			S_SO1, S_SCO1	K_W10, K_U06, K_U17, K_K08, K_K09		
		classes (2)		K_W01, K_W07, K_W10, K_U06, K_U17, K_K07		
9. Theories of motor learning (Theories of motor learning, Adams' closed-loop theory).		classes (2)		K_W07, K_W10, K_W26, K_U06,		
				K_U17, K_U21, K_U22, K_K07		
<ol> <li>Theories of motor learning (Schmidt's schema theory, dynamical systems theory).</li> </ol>		classes (2)	S_S01, S_S03,	K_W07, K_W10, K_W26, K_U06, K_U17, K_U21,		
11. Theories of motor learning (Ecological theory, The Fitts and Posner three-stage model).		classes (2)		K_U22, K_K07 K_W07, K_W10,		
			S_S01, S_S03,	K_W26, K_U06, K_U17, K_U21, K_U22, K_K07		
12. Stages of motor learning (Bernstein's stage theory of motor learning, Gentile's two-stage model). 13. The role and function of feedback (Augmented feedback what is u that does it and do we really need 17, Augmented feedback and learning skill, types of augmented feedback).		classes (2)	S_S01, S_S03,	K_W07, K_W10, K_W26, K_U06,		
		classes (2)	-	K_U17, K_U21, K_U22, K_K07 K_W07, K_W10,		
			S_S01, S_S03,	K_W07, K_W10, K_W26, K_U06, K_U17, K_U21, K_U22, K_K08,		
	tion of feedback (different		classes (2)		K_K09 K_W07, K_W10,	
mportant considerat and augmented feed	tions for giving augmented I back).	feedback, children		S_S01, S_S03,	K_W26, K_U06, K_U17, K_U21, K_U22, K_K07	
15. Final assessment (performance of practical task).		classes (2)	S_S01, S_S03,	K_W07, K_W10, K_W26, K_U06,		
Equipment	1. Projector, computer.			S_SC02	K_U17, K_U21, K_U22, K_K07	
	2. Balls, jumping rope, ket	s, jumping rope, kettlebell.				
Passing criteria	2. Preparing a fragment of	ance and active participation in the classes. ng a fragment of a lesson obtaining a positive mark in pedagogization.				
xemplary exam test) tasks	Learning curves.					
iterature	Gentile's classification of skill showing the components of 15 categories. 1. Adams J.A. (1971). A Closed Loop Theory of Motor Learning. In: Journal of Motor Behavior 3 p 116.					
	2. Chiviacowsky, S., & Wulf, G. (2002). Self-controlled feedback: Does it enhance learning because performers get feedback when they need it? Research Quarterly for Exercise and Sport, 73, 408–415.					
	<ol> <li>Cusella, L. P. (1987). Feedback, motivation, and performance. In F. M. Jablin, L. L. Putnam, K. H. Roberts, &amp; L. W. Porter (Eds.), Handbook of organizational communication. An interdisciplinary perspective(pp.</li> </ol>					
	6246678). Newbury Park CA: Sage. 4. Gentle, A. M. (1972). A Working Model of Skill Acquisition with Application to Teaching. Quest, 17(1), 3–23.					
	5. Gibson, J.J. (1979). The Ecological Approach to Visual Perception. Houghton Mifflin Company, Boston.					
	<ol> <li>Kernodle, M. W., Johnson, R., Arnold, D. R. (2001). Verbal instruction for correcting errors versus such instructions plus videotape replay on learning the overhead throw. Perceptual &amp; Motor Skills, 92, 1039- 1051.</li> </ol>					
	<ol> <li>Magill R., Anderson D. (2014). Motor Learning and Control: Concepts and Applications. McGraw-Hill Publising.</li> </ol>					
	Champaign, IL.	Schmidt, R.A. (1991) Motor Learning and Performance: From Principles to Practice. Human Kinetics, hampaign, IL Swinnen, S.P. (1996). Information feedback for motor skill learning: A review. In H.N. Zelaznik (Ed.),				
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	12. Wulf, G., & Shea, C. H.	La Will, G., & Shea, C. H. (2002). Principles derived from the study of simple skills do not generalize to complex skill learning. Psychonomic Bulletin & Review, 9(2), 185–211.				
	h teacher (e.g. classes, offic			40		
Number of hours wit ECTS points in total Feacher (e-mail)	hout teacher (e.g. homewo	rk)	dr hab. prof. AWF To			
			(tomasz.niznikowskie			