Faculty		WWFiZ	Subject name		Strength and conditioning for sports performance		
Field of study		Physical education	Study year/term		(W	F/I/st/50) 3/6	
Number of hours		30	ECTS points			6	
Subject type*		obligatory	Language			English	
Study level** Preliminary and addition	ınal	full-time No requirements.	Subject form***			classes	
requirements (e.g. prev subjects)		No requirements.					
Subject objective		The aim of this subject is to provide sactive people.	strength, power and flexil	oility training	guidelin	es for pysically	
	S	UBJECT LEARNING OUTCOMES (<i>COU</i>		ES)			
Knowledge		after completing this subject, the		s that affect f	levihility		
Kilowieuge		S_K01. Describe the benefits of a warm-up and identify factors that affect flexibility (K_W26/P6U_W/P6S_WG).					
		S_K02. Understanding the general techniques involved in performing resistance training exercise and teach the basic strength exercises (K_W26 /P6U_W/P6S_WG).					
		S_K03. Identify the phases of the stretch-shortening cycle, identify the components of a plyometric training program and design a safe and effective plyometric training program (K_W26/P6U_W/P6S_WG).					
Skills		S_S01. Conduct a warm-up before strength and power training. Perform the cool-down exercises (K_U21/P6U_U/P6S_UW).					
		S_S02. Perform basic resistance training exercise and provide recommendations for physically					
		active people trying to optimize their muscular strength (K_U21 /P6U_U/P6S_UW).					
		S_S03. Show correct execution of lower- and upper-body plyometric exercises					
Social competences		K_U21/P6U_U/P6S_UW). S_SC01. Develop and clarify the goals of a strength and conditioning program					
		S_SCO1. Develop and clarify the goals of a strength and conditioning program (K_K06/P6U_K/P6S_KK).					
		S_SC02. Identify ways to reduce the risk of injury during a workout (K_K08 /P6U_K/P6S_KO).					
Confirmation of achiev	ed learning	Continuous assesment assesment o	f execution of the selecte	d strenøth in	ower and	d flexibility	
outcomes#	_ a .carrillig	Continuous assesment, assesment of execution of the selected strength, power and flexibility exercises.					
Type of assesment mar	k##	Final assessment mark, support asse	ssment mark.				
Content			Subject form (number of hours) ###	Subject lea outcon	_	Course learning outcomes	
An introduction to the classes (learning outcomes, passing criteria,			classes (2)	S_SC01		K_K06	
content).	ection of gene	eral and specific warm-ups. Factors	classes (2)	S_K01, S_S0	11	K W26, K U21,	
		ion and intenisity of stretching.	classes (2)	S_SC01, S_S		K_K06, K_K08	
		L Hear and a second	,	0 1/2:			
 Types of stretching (static stretch, ballistic stretch, dynamic strtetch, proprioceptive neuromuscular facililtation). Guidlines for stretching. 			classes (2)	S_K01, S_S0	1	K_W26, K_U21	
 A warm-up before strength and power train 		ower training. A cool-down after	classes (2)	S_K01, S_S0	1	K_W26, K_U21	
		movement range of motion and	classes (2)	S_K02, S_S0	12.	K_W26, K_U21,	
speed, breathing considerations).			classes (2)	S_SC01, S_S		K_K06, K_K08	
-	valuation in s	strength training (squat 1RM, power	classes (2)	S_K02, S_S0		K_W26, K_U21,	
clean, jerk).				S_SC01, S_S	CU2	K_K06, K_K08	
7. Strength exercise sele balance, training equipr		nd assistance exercises, muscle	classes (2)	S_K02, S_S0 S_SC01, S_S		K_W26, K_U21, K_K06, K_K08	
8. Strength and power 6		ogram design.	classes (2)	S K02, S S0		K W26, K U21,	
			(2)	S_SC01, S_S	,	K_K06, K_K08	
9. Hypertrophy - progra	m design.		classes (2)	S_K02, S_S0 S_SC01, S_S		K_W26, K_U21, K_K06, K_K08	
10. Muscular endurance	and circuit t	raining.	classes (2)	S_K02, S_S0		K_W26, K_U21,	
14 Dh.:		Inna Mark 11 11 11	1 /=-	S_SC01, S_S		K_K06, K_K08	
11. Plyometric mechanics and physiology. Mechanical model of plyometric exercise. Stretch-shortening cycle.			classes (2)	S_K03, S_S0 S_SC01, S_S		K_W26, K_U21, K_K06, K_K08	
12. Plyometric program design (mode, lower-body plyometrics). Safety consideration.			classes (2)	S_K03, S_S0 S_SC01, S_S		K_W26, K_U21, K_K06, K_K08	
	design (mod	e, upper-body plyometrics). Safety	classes (2)	S_K03, S_S0		K_W26, K_U21,	
consideration.			S_SC01, S_S	C02	K_K06, K_K08		
14. Plyometric exercise training methods. Landi		classes (2)	S_K03, S_S0 S_SC01, S_S		K_W26, K_U21, K_K06, K_K08		
15. Final assesment (pe	rformance of	practical task).	classes (2)	S_K01, S_S0		K_W26, K_U21,	
				S_K02, S_S0 S_K03, S_S0		K_K06, K_K08	
				S_SC01, S_S			
Equipment	1. Projector						
	2. Bars, balls, Swiss balls, boxes, hurdles, jumping rope, hammers						
Passing criteria	Description and demonstration of strength, power and stretching exercises. The student should have minimum					have minimum	
	80% attendance in the classes. Which of stratching techniques should be used before plyometric workout? Why?						
Exemplary exam (test)	Which of stretching techniques should be used before plyometric workout? Why? Perform power clean and jerk.						
Exemplary exam (test) tasks	-						
	Perform po						

bligatory, optional

**full-time, part-time, e-learning

***lectures, classes, laboratory classes, projects, workshops, classes conducted by students

4-continuous assessment (current preparation for classes), mid-term written test, midterm oral test, final written test, final oral test, written exam, oral exam, assessment of motor skills, B.A/M.A. thesis, project realisation, attendance

##-final assessment mark, support assessment mark

###-lectures, classes, laboratory classes, projects, workshops, classes conducted by students

	Bishop, D. (2003). Warm up II. Sports Medicine, 33(7), 483-498. J.Dietz, C., & Peterson, B. (2012). Triphasic training: A systematic approach to elite speed and explosive strength.					
	performance (Vol. 1). Bye Dietz Sport Enterprise.					
	4. Radcliffe, J., & Farentinos, R. (2015). High-Powered Plyometrics, 2E. Human Kinetics, Champaign, IL. 5. Zatsiorsky, V. M., & Kraemer, W. J. (2006). Science and practice of strength training. Human Kinetics, Champaign, IL.					
ECTS points						
Number of hours w	ith teacher (e.g. classes, office hours)	40				
Number of hours w	ithout teacher (e.g. homework)	110				
ECTS points in total		150/6				
Teacher (e-mail)		dr hab. prof. AWF Hubert Makaruk				
		(hubert.makaruk@awf-bp.edu.pl)				