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**The Harmonic Capabilities for the Students of Physical Fitness Courses in the
Faculty of Sport Sciences at the University of Mu'tah**

Prepared by

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Abdul Hafeth Tayseer Al.Nawaiseh

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Abstract

The study aimed at identifying the harmonic capabilities for the students of physical fitness courses in the Faculty of Sport Sciences at the University of Mu'tah, in addition to identify the differences between both genders in these harmonic capabilities. The researchers used the descriptive method according to its compatibility and according to the nature of this study. The study sample consisted of (53) male and female students who were selected randomly. These students took number of tests in order to measure harmonic capabilities (numbered circles, running around cones test, throwing and receiving balls, kicking the ball towards the wall, speed of the link between different movements total coordination). Statistical methods of arithmetic means, standard deviations, t-test for independent samples and Pearson correlation coefficient were used to reach to the study results. The results of the study showed that there were statistically significant differences with regard to numbered circles test, running around cones test, throwing and receiving the balls test (using the right hand, the left hand and both hands), and kicking the ball towards the wall (using the right foot) test, within the test of kicking the ball towards the wall for both feet attributed to the variable of sex; the arithmetic means show that the differences were in favor of males because of the presence of more repetitions in favor of males.

The study results showed that there were no statistically significant differences with regard to the test of kicking the ball towards the wall (using the left foot) and the test of the speed of link between the different movements total coordination attributed to sex variable.

The study recommends to adopt motor exercises that promote the overall level of harmonic capabilities for the students, especially, for those freshman student because this factor has a positive impact on so many skills and sport games in general.

Keywords: harmonic capabilities, physical fitness

(Jantzen,Oullier & Kelso, 2008)

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(Eider & Cieszczyk, 2004)

(Stepinski, Zwierko , Florkiewicz & Debicka, 2003)

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1.9	19.34	
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1.35	19.65	
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7.34	2.47	0.924	3.517			
8.41	3.52	1.357	5.690			
13.9	10.29	1.110	11.827			
16.11	12.17	0.997	13.531			
15.00	4.00	2.7585	9.074			
10.0	0	3.349	4.500			
9	0	2.186	5.370			
8	1	1.869	3.846			
72	0	16.055	38.777			
74	0	22.944	39.692			

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0.001	6.830	51	0.924	3.517	
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0.001	4.483	51	1.095	3.740	
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0.005	2.970	51	1.362	3.370	
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0.001	5.436	51	2.758	9.074	
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- Deshmukh, Seema. (2012). Effect of Selected Exercises on Flexibility and Co-ordination of Badminton Players, (Electronic Version), International Indexed & Referred Research Journal, volume 3, issue 33, 74-75.
- Džibrić, D., Ferhatbegović, A & Ganić, E. (2008). Relation Between Motor and Situational Motor Abilities of Seventh and Eighth Grade Students Playing Volleyball, (Electronic Version), International Scientific Journal of Kinesiology, volume 5, issue 1 and 2, 51-54.
- Eider, J & Cieszczyk , P . (2004). The Level of Chosen Coordination Abilities in 10 Year old Boys as Selection Criteria for Sport Classes, (Electronic Version), Journal of Human Kinetics, volume 12, 2004 , 117-126.
- Jantzen, K., Oullier, O & Kelso, J. (2008). Neuroimaging Coordination Dynamics in the Sport Sciences, (Electronic Version), Methods,45, 2008, 325-335. journal homepage: www.elsevier.com/locate/ymeth
- Kirkendall , D . Gruber , J . and Johnson , R . (1987). Measurement and Evaluation for Physical Educators , (2nd ed) Illinois : Human Kinetics.
- Kochanwicz, K., Boraczyriska, L & Boraczynski, T. (2009). Quantitative and Qualitative Evaluation of Motor Coordination Abilities in Gymnast Girls Aged 7–9 Years, (Electronic Version), Baltic Journal of Health and Physical Activity, volume 1, issue 1,62-69.
- Marley, William. (1982). Health and Physical Fitness, Taking Charge of Your Health, US: Saunders College.
- Mynarski, W., and Kaminski, P. (2004). The Influence of Ballet Training on Somatic and Coordination Differentiation in 11-15-Year Old Girls, (Electronic Version), Journal of Human Kinetics, volume 11,2004, 15-34.

- Singh, V., and Prakash, V. (2011). Comparison of Selected Motor Fitness Variables Among Male Basketball, Volleyball and Handball Players, (Electronic Version), Journal of Human Kinetics, volume 2, issue 1, 44-49.
- Stepinski, M. Zwierko, T. Florkiewicz, B & Debicka, J. (2003). The Level of Chosen Motor Abilities of 13 Years Old Soccer Players, (Electronic Version), Journal of Human Kinetics, volume 9,2003.

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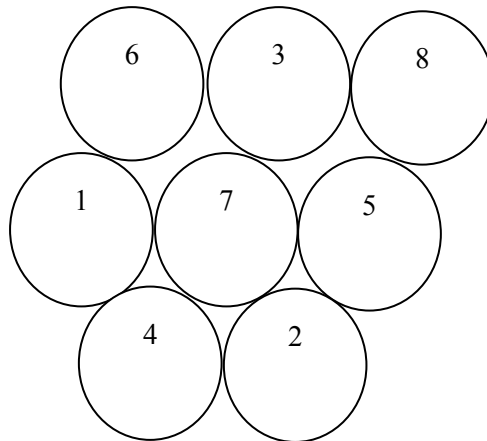
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