Electronic communication Interaction and its impact on Creative motor of Technical Rhythmic Exercises

*Dr/ Amal salah sorour

**Dr/ Sally Mohammad Abouwally Abstract:

Researchers noted. that Rhythmic technical performance activities which considered are the most important innovation kev components, the and composition of the exercised of the contents of the components of the different difficulties and elements of the movements of the body and in harmony with the rhythm of the music.

Therefore researchers found that the supply of female students with information and knowledge (visible - written) using the mutual interaction with them on the Internet, they need also to know knowledge and information.

From the participation of the Student positive participation in innovative

thinking individually the rest of the students benefit. Everyone can see the published questions or the interactions between the teacher and student.

The impact of the use of the method of teaching electronic communication to the components of the activist innovation (kinesthetic fluency flexibility and mobility kinesthetic originality) rhythmic technical exercises. Research Sample (30) students in the fourth year of Faculty of physical Education, Monofiva University.

Research methodology:

Researchers used the approach by experimental design comparing between two groups (control, experimental).

** Lecturer, ph.d at Exercise, Gymnastics Department - Faculty of Physical Education, Monofiya University.

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^{*} Assistant Professor, at Exercise, Gymnastics Department - Faculty of Physical Education, Monofiya University.

The result: Allowed communicate across the network Web Internet a great opportunity to the area of education, where differences emerged moral between pre measurements and post benefit dimensional measurement.

Introduction and the problem of the research:

Arab world is in great need to human of tomorrow, which can invents and create in order to deal with the developments of life positions and problems of the updated seminar.

And because the educational methods used in education to give students scientific thinking skills and logical thinking and solving problems and developing the ability to conclude and analyze and criticism, it further developed the capacity for creative production and through distance learning sophisticated methods. (8: 577) (1: 49, 50) (2:139)

Through advanced technologies in education, we find that there are no technical transformed life quickly and force that transformed

(Internet) course of our lives, relational iust network interconnected network all conjoin from the services of the exchange of data through world wide web, e-mail, and social media. filled atmosphere of the 1990s, the past century, and the beginning of the twenty-first century. (15: 325)

It becomes important to Internet technology education. In some cases it is difficult for the learner to meet with the instructor face-to-face class room, it also make deeper learner go understanding and accessing the instructor to the burden of teaching less and training more. (10: 241) (3: 225) (7: 302)

Researchers noted that through their work as assistant professor and a teacher on section of exercises and gymnastics at the Faculty of Physical Education in Monofiya University, rhythmic performance technical activities which are considered the most important innovation key components, and

composition of the exercised of the contents of the components of the different difficulties and elements of the movements of the body and in harmony with the rhythm of the music.

part of innovation duties required by the process curriculum ofthe female students, third and fourth year, also noted that female students depend on the retrieval skills and configurations that studied in previous years and this makes the requesting State attempt individually on the linkage between those skills and the to produce components innovative exercise, since they are subject to evaluate within the curriculum.

Therefore researchers found that the supply of female students with information and knowledge (visible - written) using the mutual interaction with them on the Internet, they need also to know knowledge and information.

From the participation of the Student positive participation in innovative thinking individually the rest of the

students benefit. Everyone can see the published questions or the interactions between the teacher and student.

It noted that the traditional way of obtaining information and knowledge of designing innovative performance process. where the teacher make sample of limited performances once, this leads female students to vision one experience only. It may not wide vision operate for designing innovative performance to sound technical

the objective of the research:

The impact of the use of the method of teaching electronic communication to the components of the activist innovation (kinesthetic fluency-flexibility and mobility kinesthetic originality) for rhythmic technical exercises.

The imperatives of reasarch:

1. There is significant difference between the average pre and post the standard for the experimental group in creative element (fluency mobility - Flexibility mobility - authenticity mobility) for the

average dimensional measurements.

- 2. There is significant difference between the average pre and post the standard for the control group in creative element (fluency mobility Flexibility mobility authenticity mobility) for the dimensional measurements.
- 3. There is significant difference between the average posts of the standard for the control and experimental groups in creative element (fluency mobility Flexibility mobility authenticity mobility) for the experimental group.

The terminology used in the research:

Interaction:

Provide educational environment bilateral direction between the teacher and the taught, examples of computer education and interactive video systems and high-tech texts. (9: 258).

Internet:

Internet is a word which consists of two segments the first segment is Inter which derived from the word International, secondly Net which is derived from the word Network. Internet means the information network and international communications (9: 320).

Motor creativity:

is the ability to produce the largest number of responses to the rare mobility and unique in the unit of time which marked by diversity as innovative movements is the ability of mind in thinking in the face of these problems mobility and the ingenuity of the body in the face of (14: 35).

Search procedures:

Research methodology:

Researchers used the approach by experimental design comparing between two groups (control, experimental)

Research Sample:

Research Selected Society of female students in the fourth year of Faculty of physical Education, Monofiya University of Academic Year 2012 / 2013, (67) student.

The following table shows the profile of a sample of the search.

Table (1) A profile of a sample of Search:

S	Description	Sample	number	Percentage	
1	Control Group	ъ.	15	22.38 %	
2	exploratory Group	Basic	15	22.38 %	
3	exploratory sample	exploratory	20	29.85 %	
4	excluded st	udents	17	25.73 %	
	Total Research	h Society	67	100 %	

The causes of the sample selection:

- Female students the 1. fourth studied various tools the many of skills in material and technical exercises rhythmic across the three previous years, and had the ability to link to integrate elements of the movements of the body, whether using tools or without the use of tools.
- 2. Through their studies for the three previous years have a degree of awareness of the different parts of the body, leisure and sense of rhythm nicknamed the rhythm of music.

3. A kinesthetic innovation is part of the curriculum of the rapporteur on the fourth division of the material and technical exercises rhythm.

The homogeneity of the sample research:

The researchers holding coherence on a sample search (control, experimental), whose number (30) a student to make sure they occur under the curve of moderation in the following variables as illustrated in table (2).

Table (2) Moderation distribution of the sample of research in the variables under discussion: N=30

The variables	Measurement	average	standard	Skewness

		unit		deviation of	laboratories
Age		Years	20,443	0,390	0,561
The le	evel of intelligence	Mark	40,450	11,852	0,915
Holmes test innovative personality		Mark	141,925	7,863	- 0,112
- X	motor fluency	Mark	35.851	5.623	0.652
tor	motor authenticity	Mark	4,500	2.654	0.962
motor creativity	motor flexibility	Mark	72.56	23.362	1.236
	total	Mark	121.911	31.639	1.362

It is clear from the Table (2) that all the values of transactions skewness calculated confined between ±3 demonstrating the moderation values under the curve of moderation in the variables under the search.

The equalization of the two sets of research:

The researchers' equivalence between the two sets of research (control & experimental) in the variables used under consideration, as shown in Table (3).

 $Table \ (3)$ Parity between the two sets of Search Control and experimental in the variables under discussion: N1 = N2 = 15

variables		measurement unit	experime	experimental Group		Control Group	
variai	oies	measurement unit	average	Deviation	average	Deviation	T
Age		Years	20,426	0,285	20,461	0,301	0,383
Intelli	igence level	mark	38,350	11,301	42,550	12,322	1,123
Holm	es test	mark	141,200	7,689	142,650	7,562	0,601
	Motor fluency	mark	34.841	5.723	35.451	5.523	0,113
ity	Motor authenticity	mark	4 800	2.854	4,600	2.659	0,410
tor ativity	Motor flexibility	mark	72.25	22.362	72.46	23.322	0,854
motor creativ	total	mark	111.891	29.365	112.511	30.625	1,297

The value of the "T" Tabular trend display when the moral level 0.05 = 1,761

It is clear from the Table (3) that all the values of "calculated" between the experimental and control groups is less than the value of

the "T" Tabular trend display, which reached (1,761) at the level of the moral 0.05 demonstrating the equalization

of the two sets of research in those variables.

Ways of collecting data:

- 1. Higher intelligence Test prepared by Elsayed Mohammed Khairi.
- 2. 2 Holmes test innovative personality.
- 3. Motor creativity Test design by Dr. Sanaa ma'moun, and dr. amany Wahid.

First: Test higher intelligence:

Prepared by elsayed Mohammad Khairi

It is one of the tests for students intelligence measurement at the stage of university education consists of (42) question ranging in difficult and include different samples of important mental functions:

Ability to focus attention in the implementation of a number of instructions at one time.

Verbal preparedness is the dealing with words in the questions of expression Synonyms.

The numerical inference is the solution to the setup chains and

questions mathematical thinking.

Verbal reasoning is the logical provisions and verbal abuse and the ability to recognize the relations.

The researcher chose this test for the following reasons:

Commensurate with the aging stage under consideration.

The use of this test in studies of similar samples of a sample current research the coefficient of the sincerity of the exam (0.89), and a gradient unchanged (0,84).

Second: Test Holmes innovative personality (8):
Scientific transactions to Holmes innovative personality test:

Coefficient of Unchanged

The researchers finding coefficient of unchanged to test Holmes Using test application and applied Test Re test on (20) female students from the research society and outside a sample basic research (exploratory sample) a week after the application under the same conditions as the first action.

 $Table \ (4)$ Calculating the utilization factor unchanged to test Holmes innovative personality: N=15

	first app	lication	second a	pplication	Correlation coefficient	
Test	average	Deviation	average	Deviation		
Holmes test innovative personality	16,467	1,959	16,200	2,274	0,923	

The value of the t Tabular trend display when the moral level 0.05 = 0.514

It is clear from the Table (4) that the correlation between the application of the first and second to test Holmes innovative personality has reached 0,923 this value is higher than the value of the t Tabular trend display, which

amounted to 0,514 at the level of the moral 0.05, which indicates the test flat.

Coefficient of Truth

The researchers finding coefficient of sincerity to test Holmes innovative personality using self-truth which equals square root 23,9

Table (5)
Calculating the utilization factor of sincerity to test Holmes innovative personality:

The Test			Correlation coefficient	Self-Truth
Holmes personality	test	innovative	0,923	0,960

It is clear from the Table (5) Labs Jumps test ratified, which refers to the validity of the application.

Third: Scientific transactions test the activist

innovation designed by Dr. Sanaa ma'moun and Dr. Amany Wahid.

Describes the test:

1. Roop test: requests by student performance of some

of the uses of the twine arm (turnovers forward and back, swings, forms of eight) linked with some elements of the movements of the body (and consistency, the turnovers) Using music in the time of one minute, and this test measures (authenticity, fluency, flexibility).

- 2. Hoop test: requests by student performance of some uses the cuff (throwing and tractors, flexible, rolling on the body and the floor) linked with some movement elements body (and firmness and balances) using music in the time of the ability for one minute, and this test measures (authenticity, fluency, flexibility).
- 3. ball Test: requests by student performance of some uses the ball (throwing and tractors, fallback rolling on the body and the floor) linked with some body movements elements, and consistency, flexibility, the ripples) Using music in the time of the ability of one minute, and this test measures (authenticity, fluency, flexibility).
- **4. Improvisation Test:** requesting hear music severed and Improvisation free motor

creativity in the time of one minute, and this test measures (authenticity, fluency, flexibility).

5. expansion test: determines the student one of skills in rhythmic exercises (Arabesque) and requesting the expansion in the performance of the movement that addition of a new movement to the first movement both in the same direction or reverse the trend which produces the largest number of various movements in the time of the ability of one minute, this test measures (fluency).

Scientific transactions to Motor creativity Test. Coefficient of Unchanged

To make sure the tests carried out researchers using test application and application on reconnaissance sample of (20) a student and applied to the same female students again within 5 days of the first application for calculating the utilization factor of stability and the correlation between the first application of the second application on the labs tests flat Table (6) flat innovation test the nom de guerre.

	Calculating the utilization factor for IQ test: N= 15									
variables		Measurement unit	first application		second application		TD.			
		wieasurement umt	average	Deviation	average	Deviation	Т			
motor creativity	motor fluency	Mark	34.584	5.585	35.958	5.695	0,811			
	motor authenticity	Mark	Is 4,700	2.625	4.589	2.785	0,706			
	Motor Flexibility	Mark	72.325	22.236	72.465	23.463	0,798			
8	The total	Mark	111.609	29.446	113.012	30.943	0,835			

Table (6)
Calculating the utilization factor for IQ test: N= 15

The value of the t Tabular trend display when the moral level 0.05 = 0.514

It is clear from the Table (6) that all the values of link transactions calculated the variables under search the highest value of t Tabular trend display, which amounted to 0.514at the level of the moral 0.05, which indicates that the stability of the tests used under the search.

Coefficient Of Truth

To ascertain the veracity of the tests carried out researcher using the secured ratified through the presentation of the test in its final form a number (10) of arbitrators from faculty members of sports education. The rate of approval by experts

of the sincerity of the content of 100%.

Series General farmework for the implementation of the method of interaction electronic communication:

The researchers create a page on the web site of the social communication. (figure provide field 1) communicate with female pilot group, and select hours per week with identifying today in which are parameters in conjunction with students to listen to the needs of the female students from the information and vision for more experiences real attitudes.





(Figure 1)

First: the instrument cluster:

Guest experience in the first semester of the academic year 2012/2013. and implementation of the instrument cluster two groups (experimental, Control) during the period from Saturday, 1/12/2012 until Monday, 3/12/2012.

Second: steps of implementation experience

1. The researchers following the traditional way to extend the female control group of expertise, inter alia kinesthetic innovation required of them receiving through inquiries female students if they wanted after the end of the lectures on Tuesday of every week for four weeks. where innovative sentence does not allocated time in the time allotted for the

teaching curriculum technical exercises rhythm.

2. The researchers to set the date for a weekly to communicate with female pilot group to provide them with the experiences of the inter alia kinesthetic innovation required of them on Tuesday of every week for four weeks, and communicate as follows:

Tuesday 04/12/2012 and 11/12/2012 and 18/12/2012 and 12/25/2012.

Third: The instrument cluster dimensional

Measure was dimensional on two groups search (experimental, Control) on Wednesday: 26/12/2012 to apply Holmes test innovative personality.

Thursday 27/12/2012 the application of the test kinesthetic innovation.

Statistical:

The arithmetic average standard deviation
The value of the (t) correlation coefficient The Mediator Percentage Skewness laboratories

View results and discussed it:

Presentation of the results of the first assumption:

The significance of the differences between the average indices (BEFORE - AFTER) experimental Group variables motor creativity under the Search:

Table (7)

The significance of the differences between the average indices (BEFORE - AFTER) of experimental Group variables motor creativity under discussion: N=15

The variables		Measurem ent	Before Measurement		Meas	T	
		unit	average	Deviation	average	Deviation	
motor creativity	motor fluency	mark	35.600	1.847	45.400	1.903	28.336
	motor authenticity	mark	1.350	1.089	2.950	1,050	6.532
	motor flexibility	mark	70.200	1.472	77.700	1.218	10.635
	total	mark	107.15	, 2.205	126.05	4.050	26.761

The value of the "T" Tabular trend display when the moral level 0.05 = 1.761

It is clear from the Table (7) differences statistically function between the average indices (tribal - dimensional) experimental Group variables kinesthetic innovation for dimensional measurement, where the value of the "T" calculated variables kinesthetic innovation and higher than the

value of "T" Tabular trend display.

Presentation of the results of the second assumption:

The significance of the differences between the average indices (BEFORE - AFTER) officer group variables kinesthetic innovation under discussion

Table (8)

The significance of the differences between the average indices (BEFORE - AFTER) Of control in the variables motor creativity Under discussion: N=15

variables		Measurem ent	before Measurement		af Measu	Т	
		unit	average	Deviation	average	Deviation	
	motor fluency	Mark	35,300	1.780	35.550	1.761	0.691
creativity	motor Flexibility	mark	0.900	0.912	0.950	0.605	0.645
motor cı	motor authenticity	mark	70.250	1.372	70.350	0.933	0.400
	The total	Mark	106.45	4.064	106.85	3.299	1.035

The value of the "T" Tabular trend display when the moral level 0.05 = 1.729

It is clear from the Table (8) the existence of differences in non-statistical function between the average indices (tribal - dimensional) officer group variables kinesthetic innovation for dimensional measurement, where the value of the "T" calculated variables kinesthetic innovation less than

the value of the "T" Tabular trend display Presentation of results of the third imposition of: The significance ofthe differentials measurements (tribal dimensional) between the two groups (control - experimental) variables kinesthetic innovation

Table (9)
The significance of the differentials measurements (BEFORE - AFTER) between the two groups (Experimental- control) variables motor creativity: N1= N2=30

variables		•		ıtal Group	Control Group		
		ent unit	Average of difference	Deviation	Average of difference	Deviation	Т
×	motor fluency	mark	9.800	1,704	0.250	1.618	19.075
creativity	motor Flexibility	mark	1.173	1.095	0.050	0.025	5.065
	motor authenticity	mark	7.565	1.051	0.100	1.120	6.895
motor	total	mark	18.945	2.490	0.400	1.729	21.391

The value of the "T" Tabular trend display when the moral level 0.05 = 1.697

It is clear from the Table (9)differences statistically function in teams measurements (tribal dimensional) between the two groups (experimental- control) in the factors of the activist innovation under the search for the benefit of the Pilot Group, where the values of the value "T" of the calculated the "T" value of the highest Tabular trend display.

Conclusion:

1. Allowed communicate across the network Web Internet a great opportunity to the area of education, where differences

- emerged moral between pre measurements and post benefit dimensional measurement.
- 2. The method of indoctrination by the instructor learner caused differences moral between pre measurements and post benefit dimensional measurement.
- 3. Interaction and communication between the teacher and the taught through the Internet was more influential than the method of the instructor teaching information without the interaction of the educated.

Recommendations:

- 1- The use of electronic communication through the Internet as a source of additional education in Supp lementary populace impact Enrichment what is not a substitute for it
- 2- The use of the Internet in the transfer of educational materials and complement the already existing and not an alternative to double.
- 3- The preparation of educational materials in a way that gives the learner to a greater opportunity to control in education.
- 4- Honoring the possibility of educated interaction with the material before participation in learning positive participation.
- 5- The work of the studies and researches educational such a study on the impact of the technology of education and the Internet to learning methodologies to reach the boundaries of teacher service learner capabilities.

References

1. Ahmed Abdullah Al-Ali (2006). distance education and the future of education in the

- Arab world, Dar Alketab Al hades.
- 2. Al-gharib Zahir Ismail (2001). information technology and modernization of education, dar Alam El ketab.
- **3. Ali Ahmed madkour** (2005). future teacher towards better performance, Dar el fekr Al-araby, Cairo
- 4. Amany Wahid & Sanaa ma'moun (2008). Creative motor in rhythmic performance and its relation some sport features, Published in the Regional Conference IV International ofthe Council of the health and physical education and recreation and sports and expression in Middle East, vol. Faculty of Physical Education Boys, University of Alexandria.
- **5. Kathleen, O.** (1982). The Development of a refined movement analysis and its relationship to motor creativity among grade two children, Dissertation Abstracts international, vol: 43, No 2, August.

- 6- Heba Abdel Said Moneim (2009). "Building an educational Internet site and its impact on the acquisition of some of the teaching skills of the students practical education teaching Division Faculty of Physical Education in Tanta", unpublished PhD thesis, Faculty of Physical Education, Tanta University.
- **7- Mohammed Attia Khamis** (2009). Education and Learning Technology, Second Edition, Dar Al- Sahab for printing and publishing and distribution, Cairo.
- **8- Magdy** Aziz Ibrahim (2005). Encyclopedia of Teaching, Part II, Dar Elmasera for publishing, distribution and printing.
- **9- Mohammed** Ali (2002). Education and teaching aids technology, Dar el fekr el araby.
- **10- Mohammed Mohammed El-Hadi (2005).** E-Learning via the Internet. The prospect of a renewed educational, Dar El-Masrya El-lebnanya.
- 11- Mash RJ, et al. (2005). Assessment of the quality of interaction in distance learning

- programmes utilising the Internet (Web CT) or interactive television (ITV), Med Educ.;39(11):1093-100.
- 12- Safya Ahmed mohey el den & samia rabea Mohamed (2002). The ballet and modern dance, faculty of physical education Helwan University.
- **13- Samia al hagrasy (2004).** Rhythmic gymnastics concepts of scientific and artistic, First Edition
- 14- Wahiba Ali hassan **(1997)**. "creative Zaghloul thinking and motive creativity excellent students expression and its relationship to some selected variables" unpublished PhD thesis. Faculty of Physical Education for Women. Helwan University.
- **15- Zakaria Yahya Lal, Alia Abdullah El-gendy (2005).** Electronic communication and Education Technology, Third Edition.
- **16-** Fédération Internationale De Gymnastique (FIG) executive committee (2013-2016). Code of points.