# The impact of smart tablets use in the mobile learning environment upon learning outcomes in football for students in the second stage of basic education \*Dr/ Ahmed Shawky Mohamed Mohamed

The environment ofmobile is learning characterized by a friendly environment because the lessons and lectures are received through mobile phones, which do not require physical effort or a specific environment which in unrestricted. learners are or a specific place. Bouman (16:86)

Moving learning through smart tablets is a real and translation of the practical philosophy of distance learning that expands the educational opportunities of individuals and reduces their cost comparison with traditional education systems as philosophy that affirms the right of individuals to take advantage of educational opportunities that are available and time-bound. And limited to a specific level or type of education, where the learner learns according to the capacity and ability and speed of learning and according to the previous experience and skills, and even the success in providing educational service suitable for some of the applicants of such a service,

And It is rooted in the consolidation of individual or self-education, which contributes to the translation of the concept of democracy education into reality scenes. (14: 82)

Smart tablets can be used and used in the education system through their technologies or services that can provide many benefits to the learning process and offer opportunities for new traditional learning the classroom as well as lifelong learning outside these classrooms. (17: 56)

And the traditional methods used in education depends on one source of knowledge is the explanation by the teacher and then the presentation of the model

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without the least actual participation of students in the integration of some educational and technological means to improve the educational process and when using these technological methods,

The teaching moves from methods based on the negative learner to modern methods developed And move the educational process from the teacher to the learner and the role of the teacher is guidance and guidance as it facilitates the of process education and reduce the learning time,

Which leads to increased effectiveness and efficiency in learning and refers Ahmed Fahim Badr (2012), citing Tracy (2004) that a person can remember 20% of what he hears and remember 40% of what he hears and see, but if he heard and saw and work, this ratio rises to 70%.

While this percentage increases in the case of human interaction with what he learns through these modern methods (3:15)

Despite the importance of the use of smart tablets in the field of mobile learning and its effective role, but the

researcher did not find studies have addressed the use of smart tablets in the mobile learning environment in the outcomes of learning in football for students of the second cycle of basic education to the knowledge

## **Research Objective:**

The research aims to identify "the impact of the use of smart tablets in the mobile learning environment on learning outcomes in football for students of the second cycle of basic education

### -Research hypotheses

- -There are statistically significant differences between the pre and post measurements of the experimental group on learning outcomes in football in favor of dimension measurements.
- -There are statistically significant differences between the pre and post measurements of the control group on learning outcomes in football in favor of dimension measurements.
- -There were statistically significant differences in the learning outcomes in football between the experimental group and the control group in

the dimension measurements for the experimental group.

# -Search Definitions: Mobile Learning:

Is a pattern of elearning, calling for the use of portable devices and devices to provide a new type of learning that is flexible and appropriate to the current technological developments? (56:13)

Is middle the state between cell laptops and phones. thev come as a compromise between them. many of us did not satisfy the size of the cellular screen to enjoy browsing or watching videos, and find that the other large laptops when moving from place to place somewhat heavy, and here arose the idea The tablets are a middle state between both. "(124:4)

#### Search:

# First: Research Methodology

The researcher used the experimental semi-experimental method to design two groups, one of which is experimental and the other by applying the post pre measurements for each group

to suit the nature of the research.

# Third: Society and Research Sample:

The research community consists of students of the second grade preparatory school of modern pioneers in the administration of Benha educational in the province of Qalyoubia for the academic year (2017 - 2018), the number of (215) students, and was selected sample random search of students in the second grade school at the preparatory school. The modern total number of students was 60, with a percentage of 27.9%. They were divided into two groups, one experimental and the other one, each with 30 students, in addition to 20 students for the survey.

# Homogenization of the research sample:

To ascertain the of the research occurrence sample under the natural curve and then the distribution of the normal using the coefficients of the torsion to find homogenous factor of the basic and experimental study variables, which is shown in Table (1)

### Table (1)

Homogeneity of the research community

Variables	Measure unit	SMA	standard deviation	Mediator	Torsion coefficient
Age	Year	13.16	13.07	0.29	2.69
Height	Cm	146.63	146.00	3.28	1.03
Weight	Kg	44.19	45.00	2.89	1.46-
Numbered	S	12.66	12.68	0.93	0.20-
circuits					
Wide jump from stability.	Cm	158.55	157.00	8.47	0.41
Running thirty meters from a moving start		6.69	6.69	0.25	0.32-
Running and rotation	S	14.66	14.66	0.32	1.95
Pass the ball on the wall of the block	No	7.05	7.00	1.10	0.72
Accuracy of passing the ball to the foot	Degree	0.74	1.00	0.55	0.08-
Running the ball around the circle	S	19.05	19.00	1.10	0.83
kick the ball with the head	Degree	0.76	1.00	0.60	0.14
The cognitive test	Degree	14.9	0.9	15	0.3-

It is clear from Table (1) that the coefficients of the torsion of "age, height, weight, physical and skill variables and cognitive test" were limited to  $(\pm 3)$  where the values ranged from (1.49 to 2.69) Rates "of the selected variables" in question "and thus occur under

the natural curve and the normal distribution of it.

**Fourth:** Means of collecting data

The researcher relied on collecting the information and data related to this research to the following tools and tools:

- Instruments and tools used in research:

- Resistameter to measure the length of the body measured in centimeters.
- Medical balance to measure weight in kilograms. PC
- Stopwatch (for measuring time)- Measuring tape (measuring distance)
- Mobil (android)
- Expert feedback form:
- An expert survey on the application of smart tablets in the mobile learning environment and its scientific content (7)
- Tests used:
- Physical tests: Attachment (2)
- The following physical tests were identified.
- Test the enemy 30 meters from the moving start to measure speed. (9: 363, 364)
- -Test run and turn right to measure agility. (8: 58)
- Stability test of the stability of the muscles of the legs (9: 363, 364)
- Test circuit numbered to measure the compatibility of men and eyes. (10: 60)
- Test pass the ball on the wall of the resistor during 30 w to measure accuracy. (9: 363, 364)
- Skills tests for the skills in question: Attachment (3)

- The following tests were identified:
- Test the accuracy of passing the ball in the foot between the two chairs to measure the accuracy of the scroll. (6: 50)
- Test hit the ball with the head to measure the accuracy of passing the ball head to a specific place. (10: 69)
- Test ball run around a circle to measure the ability to control the ball while running in a curve line. (6: 53)
- Scientific procedures for the tests in question: Attachment (1)
- -Test of cognitive achievement: Annex (5)
- The researcher used cognitive test prepared by Ahmed Shawki Mohamed (2015) (1) and consists of (40) words distributed on the first axis: the legal side and the number of words (15) words, and the second axis: technical aspect of football skills in question (25) words. This test was applied by the same age stage
- Scientific Experiments of the Test Cognitive Achievement: Attachment (1)
- The researcher found the scientific procedures for the

test cognitive achievement: Annex (5)

- A questionnaire and emotional impressions of students about the use of smart tablets in the mobile learning environment: Attachment (7)
- Tutorial using smart tablets in the mobile learning environment (researcher's preparation): Attachment 10
- The researcher reviewed a number of references and reference studies that dealt with how to build the learning mobile program through learning only, and mobile learning using smart tablet applications or smart phones such as Schuler (Shuler (2012), Chu (2014) "Ahmed Fahim Badr" (2012) 3, "Ahmed Abdel Moneim Mohamed (2013),Mahmoud Mahmoud Awad (11)," Walaa (2014)and Mohammed Kamel al-Abd (2017) (20), and the researcher designed the program Educational system with the commensurate characteristics and trends and needs of this stage, which works select the to best programs that help the build researcher to the application and how to use it by smart tablets

- Implementation of the basic experience:
- Pre measurements
- -The pre measurements were made in the technical variables and cognitive achievement on Tuesday, 7/3/2017
- Apply basic search experience:
- The researcher applied the basic research experiment in period from Sunday. the 12/3/2017 to Wednesday, 19/4/2017, at (6) weeks once a week for 90 minutes at a time. The experimental experiment applied was to the experimental group. Has implemented traditional the program.

### **Control group:**

- The control group was subjected to the traditional program (verbal explanation and performance of the practical model) the following day of application of the experimental group.
- The experimental group:
- The experimental group was subjected to the educational program which contains smart tablets in the mobile learning environment (6) weeks once a week for 90 minutes at a time.
- Dimension measurements:

- Post measurements were carried out in the basic research sample in the technical variables and the cognitive test on Thursday 20/4/2017.

### **Statistical treatments:**

- The researcher used the statistical treatments suitable for the nature of the research using the program: Statistical Package for Social Sciences (SPSS) Statistical package for the Social Science, the following statistical treatments were used:

- SMA.- Broker- the standard deviation.. correlation coefficient "Pearson".- Test (T)
- Torsion coefficient
- View and discuss the results:

 $Table\ (2)$  The significance of the assumptions between the averages of the pre and post measurements of the experimental group In the technical tests of the sample in question N=30

Tests	Measure unit	Pre i	neasures standard deviation	Post:	measures standard deviation	The difference between the two averages	T value
Accuracy of passing the ball to the foot	Degree	0.67	0.48	2.77	0.50	2.10-	21.00*
Running the ball around the circle	S	19.32	0.99	16.23	0.76	3.10	11.85*
kick the ball with the head	Degree	0.83	0.70	1.83	0.38	1.00-	7.37*
The cognitive test	Degree	14,93	0,907	28,60	1,22	13,66	47,28*

The value of "T" in the table at the degree of freedom (2) and the level of moral (0.05) = 1.73

Table (9) shows that there are statistically significant differences between the pre and post measurements in favor of the dimension measurements in the technical tests and the cognitive test of the experimental group, since

the value (t) calculated is greater than the tabular value.

The researcher returns this result to the experimental research sample to the effect of smart tablets in the mobile learning environment, and the many advantages that these applications have to serve the students' learning, and contribute to the improvement of their knowledge and mobility level, where easy to carry smart tablets and transfer from one place to another. The presence of a camera that helps students to use it in the documentation at work, and the appropriate size that makes it easy for students to browse and see the practical models and technical the correct performance of the skills of football in question, in addition to providing multiple means to the content represent provide multiple options Of pupils, and different ways to express knowledge texts, and quick access to information and effective smooth browsing, in addition to the possibility of loading programs and applications without the complexity of 0

Walaa Mohammed Kamel (2017), quoting Huber

and Sabrina (2012), affirms that tablets will transform the educational task into permanent function that is not related to time or place. Tablets can also contain textbooks and maintain them The tablet has become a tool for entering the ever-evolving technological education stage, encouraging self-learn. students to facilitating new teaching methods such as participatory learning, collaborative learning and distance learning. (15: 18)

The researcher explains that the means used in the research is the property of the student at any time and any place can access the scientific content at any time, before, during and after the educational unit, which leads to a cycle to increase cognitive achievement.

This finding consistent with the results of the study of Ahmed Abdel Moneim Mohamed (2013).Mahmoud Ahmed Desouki (2015), and Walaa Mohammed Kamel (2017). 15 It was pointed out that the use of learning Mobile through smart phones and smart tablets has a positive impact in the education of motor skills and development aspects and scientific concepts under their research. Thus, the first hypothesis is fulfilled "There are statistically significant differences between the pre and post measurements of the experimental group on learning outcomes in football in favor of distance measurements"

 $Table \ (3)$  Indication of differences between the mean and post measurements of the control group. In the technical tests of the sample in question N=30

<b>T</b> D 4	Measure	Pre measures		Post	measures	The difference	Т	
Tests	unit	SMA	standard deviation	SMA	standard deviation	between the two averages	value	
Accuracy of passing the ball to the foot	Degree	0.63	0.56	1.87	0.73	1.23-	6.50*	
Running the ball around the circle	S	19.17	1.02	17.87	1.06	1.30	5.03*	
kick the ball with the head	Degree	0.57	0.50	1.57	0.50	1.00-	6.95*	
The cognitive test	Degree	15	0,787	22,23	1,06	7,33	30,36*	

Tabular value at a significant level of 0.05 and freedom degree of 19 = 1.72

Table (3) shows statistically significant differences between the pre and post measurements in favor of the dimension measurements in the technical tests and the cognitive test of

the control group, since the calculated value (t) is greater than the tabular value.

The researcher believes that this improvement is due to the characteristics of the method (orders) and the focus

of the importance of the presence of the teacher,

which gives a clear idea of how to perform the right skill through the verbal presentation of the skill that contains an explanation of the importance of skill and then give a model which makes it more effective As well as the ability of the teacher to discover and fix problems before they prove and become

also **I**t impairs the correct performance of the skills to be learned and provides the student with an opportunity to learn, which has positive effect proficiency and efficiency of the performance, as well as the provision of information and knowledge when learning these skills during the period has helped to increase the knowledge and information of the students, which in turn helped to improve their level of cognitive achievement.

The researcher also attributes these real differences in the dimension measurements to the similarity of the educational program of the control group with the experimental group in terms of the educational environment, the possibilities and the time period. The learner's knowledge of the content of the skill performance of the motor skills helps to form the clear picture of these skills as well as the correct sequence of them. (1) Mahmoud Ahmed Desouki (2015) (11),

Sameh Mahmoud Abdel-Aal (2016) (5) where he pointed out that the method of command showed a positive impact On the growth of physical and professional achievement Where the learner has the opportunity to learn by presenting a practical model of skill to be used for the method of presentation of theoretical information and commentary and criticism associated with the model.

Thus, the second hypothesis is fulfilled

"There are statistically significant differences between the pre and post measurements of the control group on learning outcomes in football in favor of dimension measurements"

 $Table \ (4)$  Indication of the differences between the measurements of the post measurements of the experimental and control groups In the technical tests of the sample in question n=30

		Experi	nental group	Control	group	The	Т
Tests	Measure unit	SMA	standard deviation			difference between the two averages	value
Accuracy of passing the ball to the foot	Degree	2.77	0.50	1.87	0.73	0.90	5.56*
Running the ball around the circle	S	16.23	0.76	17.87	1.06	1.65-	6.89*-
kick the ball with the head	Degree	1.83	0.38	1.57	0.50	0.27	*2.32
The cognitive test	Degree	28,60	1,22	22,23	1,06	6,36	22,04*

The value of "T" in the table at the degree of freedom (38) and the level of moral (0.05) = 1.96

Table (13) shows that statistically significant differences between the experimental and control groups are in favor of the experimental group in the skill level, since the calculated value (t) is greater than the tabular value.

The researcher attributed this apparent progress in the technical level of some of the football skills in the research group to the use of smart phones in the mobile learning

environment, which was through the educational program, which includes the presentation of skills to be through the learned smart tablets attractively and led to the vision of skills And the knowledge learned to he through the mobile phone clearly and easily in the representation several times, as the means used is the property of the student and this is the most important feature unlike other educational tools can be

used in educational programs, but not the researcher or researcher,

The main educational tool in this research is the property of the student through which the student can return the educational content and repeat several times at any time he wishes during the day during and before and after the educational unit and thus help in the process of learning and skills mastering knowledge, and was introduced knowledge and information in an orderly manner It is also interesting to see the students' interaction with the educational program according to their ability and speed of absorption and learning, which led to the superiority of the experimental group to the control group that used the road Ge traditional based on the commentary and performance model

In addition, mobile learning provides a learning environment that takes into consideration the individual differences of students in a large and clear way, where students can receive scientific information in a manner that is appropriate to their audio and visual abilities, and works to achieve the educational goals to be achieved in less time and

less effort, as well as having fun and motivation to learn and helps students In reliance on themselves

Schuler (2012) argues that intelligent learning is one type of learning in which learners use mobile devices, which include digital content for learning anywhere, anytime, such as PDAs, laptops, Wireless connectivity (184: 21)

Ally (2004) and Dogan, (2015)Bulent agree that mobile devices can make mobile teaching workable, and that interaction with touch screens on smartphones And tablets can allow students to process new information, and can transfer these devices and applications teaching materials as a virtual world, and can be used to provide educational for materials students. educational materials need to multimedia strategies, use rather than textual strategies, the goal of mobile learning is to provide An educational which environment. allows learners To learn at any time, anywhere, or from any device, thereby achieving a more creative learning process. (18:16), (170: 29), (38:28) This result is consistent with Mohamed (2013), Mahmoud Ahmad Desouki (2015), and Walaa Mohammed Kamel (2017). 15 They noted that mobile learning Using smart phones and smart tablets has an effective effect on improving the technical aspect of learners compared to the traditional way

Thus, the second hypothesis is fulfilled, which states

"There are statistically significant differences in the learning outcomes in football the between experimental group and the control group in distance the mean for the measurements experimental group"

The researcher attributed the improvement in the level of cognitive achievement of the experimental group students to the use of smart tablets in the mobile learning environment. including video, pictures, written texts. discussions. sentences on different devices. All this led to intensive and unconventional information delivery, as well as presentation of the best models of the skills under study, how properly teach different to skills, evaluate students' performance, provide appropriate feedback. and provide information and

knowledge related to skill content. And to chart the sound motor paths of the skills in question. The learning process has been enhanced and made more effective by using the learner for more than a sense as well as for the organized and interesting presentation of knowledge and information.

The researcher attributed this improvement to presentation of knowledge and information in an organized interesting and accompanied by illustrations and educational video files that make information related to the minds of students, which leads to the interaction of students with the educational program during the unit and try to retrieve the read information and performance methods that were seen for different skills according to individual abilities In learning, which led to the improvement ofthe experimental group from the control group (under study)

This is consistent with what was referred to by the loyalty of Mohammed Kamel (2017), quoting Azmi Gad Nabeel (2014). Mobile learning enables teachers to use it through the easy distribution of work to students. Students can easily interact with each other and with the teacher instead of

sitting behind large screens; Mobile learning can be used anvwhere anytime. and otherwise. It may solve the problem of students dropping out of school. Students who have dropped out of school can enjoy learning to use mobile learning, increase motivation, and commit students learning if the student takes the device home. Any time he wants that You help him take responsibility. (16:15)

This result is consistent with the results of Carr (2013). Shaw Chu (2014). Ahmed Fahim Bader (2012).Mahmoud Ahmed Desouki And "Walaa (2015)Mohammed Kamel" (2017)(15), who pointed out that there

is a marked improvement in cognitive achievement through the use of smart tablets in the mobile learning environment to knowledge acquire information, and that it necessary to take advantage of this technology in universities and facilitate the use of tablets Smart in education because of positive role in the its educational process. And thus fulfills the third research hypothesis, which states:

"There are statistically significant differences in the learning outcomes in football between the experimental group and the control group in the mean distance measurements in favor of the experimental group"

Table (5)

Opinions and emotional impressions of students in the experimental group towards use Use smart tablets in a mobile learning environment

Phrase	Ag	Agree		To some extent Not agree				The level of
no	Frequency	percentage	Frequency	percentage	Frequency	percentage	Ka 2	statistical
								significance
								at the level
								of 0.05
1	24	%80.	3	%10	3	%10	*29.4	. In favor of
	24	% 80.	3	7010	3		*29.4	approvers
2	26	%86.7	2	%6.67	2	%6.7	*38.4	. In favor of
	20	7000.7	2	700.07		700.7	30.4	approvers
3	3	%10	3	%10	24	%80.0	*29.4	. In favor of
4								non-approvers  In favor of
•	25	%83.3	4	13.34	1	%3.3	*34.2	approvers
5					_			. In favor of
	24	%80.0	4	%13.3	2	%6.67	*29.6	approvers
6		10%						. In favor of
	3		3	%10	%24	%80.0	29.4	non-
								approvers

Follow Table (5)
Opinions and emotional impressions of students in the experimental group towards use Use smart tablets in a mobile learning environment

Phrase	Ag	ree	To som	e extent	Not:	agree		The level of
no	Frequency	percentage	Frequency	percentage	Frequency	percentage	Ka 2	statistical significance at the level of 0.05
7	3	10%	2	%6.7	25	%83.3	*29.4	. In favor of non-approvers
8	24	%80.0	4	%13.3	2	%6.67	*29.6	. In favor of approvers
9	25	%83.3	3	%10	2	%6.7	*33.8	. In favor of approvers
10	26	%86.7	2	%6.7	2	%6.7	*38.4	. In favor of approvers
11	25	%83.3	4	%13.3	1	%3.3	*34.2	. In favor of approvers
12	2	%6.67	3	10%	25	%83.3	*33.8	. In favor of non-approvers

The value of Ka 2 is the tabular at a significance level of 0.05 = 5.99

Table (5) shows that the views and impressions of the students in the experimental group that are approved and not accepted towards the terms of the survey questionnaire are statistically significant at 0.05 and for the approvers. This is an indicator of the use of smart tablets in the mobile learning environment. Increase effectiveness of learning the skills offootball under consideration

### **Results:**

The proposed program using smart tablets in the mobile learning environment has a positive impact on learning the skills of football skills in the research group and improving the level of cognitive achievement.

The traditional method (verbal explanation and practical model) contributed to learning the skills of football in question, and has a positive effect on the acquisition of information and theoretical knowledge of the control group.

### **Recommendations:**

•The use of smart tablets in the mobile learning environment for its effectiveness in learning and mastering the skills of football in search as well as cognitive achievement.

•The necessity of appropriate recruitment of the techniques used in the teaching of football courses.

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