

## Summary of the Search

### Introduction and research problem:

Education technology is one of the modern pedagogical techniques which recently achieve a great development in teaching and education concepts in as much as the educational process affected by a lot of intra-factors. "Fat Allah AbdElHaleem" mentioned (1995 ) "involving modern technology in education can free us from the traditional education methods on condition if it is well used in the primary education process that representing in teaching students factors, information and knowledge to be used in his live. (81: 17)

As a result of the technological revolution in information technique, which make the world as a small village, the need for experiences exchange with other is increase, also students need for rich and multi-resources environments and self-building therefore the term E-learning raise-up and is consider as one of the educational methods to give the information to students depending on the modern techniques of computer and internet and their multimedia ( CDs – educational software- E-mail ), also it is an important support means for education as it turn this process from dictation to the phase of creation, interaction and skill improvement using computer and internet (175) (178) (164)

Volleyball is one of the faculties of physical education bylaw curriculum for first year students at the primary stage (second semester). That course needs to apply modern scientific methods to achieve its goals of "Education for the acquisition of basic skills and cognitive aspects associated with different skills."

In order for us to move forward in the sport and the achievement of its objectives the teacher must be familiar with the ways and modern educational methods that help the learner to learn the skills and functioning correctly and effectively.

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"Said Hameed Algamely" (2002) and "Eleain Wadie Farag" (1990) agreed with "said Mohamed Koutob 1985" " though volleyball basic skills seems easily preformed it needs a great effort for mastery as the game rule commended ( short ball touch time, determine ball touch with fingers, small playground, preventing the ball catch or shot or push or hit the floor also the speed of movement ,reaction and performance ) and some other legality aspects.(53:35) (24:48,49) (55:21)

Through the work of a researcher as assistant in the teaching of volleyball curriculum she noted that the methods and teaching methods used are based on verbal explanation and performance of the model by the teacher, with no links between them and the technological innovations in the educational process, which leads not to keep pace with international experiences in developing methods and teaching methods as well as courses programmed and the need to prepare students for the challenges of the twenty-century atheist and try to promote the field of physical education about the prospects for a new science education not only confined to traditional methods, but also by active participation of the learner, so teachers must put in mind the development of course content and the educational methods and modern teaching methods that make the learner the core of education, to achieve that we had to have an effective use of computers and benefited of the educational technology and the Internet.

Although volleyball is distinguished by its hard learning skills, these skills required a long time and great efforts by the instructors to be learned and acquired to students, and increase the number of students in the lecture, as well as the modern of motor skills for them. But the period of teaching this course is only one semester (second semester of the primary stage), three months (two practical and one theoretical lecture per-week) this period needs support for basic skills mastery and learning.

in addition students are asked to choose one of the team specializations (includes volleyball course) after completing this course on the second semester of the primary stage that occurs at the beginning of the specialization stage that is means after two or three or four or even five semesters especially for teaching section .

As this period is a major reason why students lose a lot of what has been gained and learned from the basic skills of volleyball in the basic stage.

According to the knowledge of the researcher through the examination of many Arabic and foreign studies, which dealt with use of the Internet in the areas of education such as the study of both "Ahab Fahim" (2006)(33), "Assam Mohammed" (2007)(107), "Rasha Nagh" (2007)(44), "Heba Said" (2009)(124), "Macaithan Robert, Everhaert Brett" (2001)(148), "and Bouchel Puce & Stertz" (2005)(152) she did not find a study of an electronic educational program design on the Internet to teach volleyball skills to first year students at the Faculty of Physical Education - Assiut University, and to try to take advantage of the education technology offers of a variety of stimuli, audio-visual and immediate feedback and active participation of the learner in the learning process. As the student is the center of the educational process, for him we devote all the possibilities and the appropriate methods that give the information friendly through which the set objectives are achieved, and the teacher is relied upon in devising methods and means that contribute to the performance of the lesson and student interaction.

Hence the idea of the study come in mind Therefore the researcher sought to find a particular learning method and standardized helps teacher in the education process and will enable learners to acquire and learn the basic skills and access performance to the point of perfection and installation as well as gaining the cognitive aspects related to skills, and

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make these skills lasting until the specialization stage in the three departments (teaching- training- management).

To go with and coexist the great technological developing of the present age , translated our creations and abilities of innovation to others, qualified individuals who are able to keeping in line with this age and achieve the educational development the researcher have had to play role at this through using the available facilities of the educational technology in methodological organized way to design different and effective educational environments and situations where the students are subject to different experiences and the performance , cognitive, and feeling aspects are fully interacted. To make him the topic of learning process and give him the chances of mastery and learning. That is through designing online E-learning program for teaching volleyball skills for first year students, faculty of physical education – Assuit University

**Research Importance:**

- 1- The study resulted from the call for the necessity of preparing multi-media E-curriculum at different universities.
- 2- Trying to keep up with the latest methods of teaching technology in the field of physical education to provide educational content via the Internet.
- 3- dealing with the individuals differences among students and provides fields for self-activity
- 4- the clarity of the educational program's aims for students to interact positively with the program
- 5- Change the traditional role of teacher from being just knowledge and information translator to designer of effective learning environments, increase his role in guidance and supervision.
- 6- That research is a particular new scientific addition in volleyball.

### **The research aims:**

The research aims at "designing E-learning program on the internet for fundamental volleyball skills teaching and identify its effect on:

- 1- The cognitive achievement in volleyball for first year student, faculty of physical education – Assuit University.
- 2- Volleyball skill performance for first year student, faculty of physical education – Assuit University.

### **Research hypothesis:**

- 1- There are statistical significant differences between the averages points of per- and post-measurements of the (experimental- control) group at volleyball skill performance in favor of the post-measurement.
- 2- There are statistical significant differences between the averages points of per- and post-measurements the (experimental- control) group at the cognitive achievement in favor of the post-measurement.
- 3- There are statistical significant differences between the averages points of the (experimental- control) group at the cognitive achievement in volleyball in favor of the experimental group.
- 4- There are statistical significant differences between the averages points of the (experimental- control) group at post- measurement in the skill performance of volleyball in favor of the experimental group.

### **Research procedures and plane:**

#### **Research method:**

The researcher applied the experimental method using the experimental design of the control and experimental group, applying per-

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and post- measurements for both groups for its suitability for the study nature.

#### **Research society and sample:**

Research society includes the first year college-age students, faculty of physical education –Assuit University for the academic year 2008-2009, they are 496 students. The basic sample was intentional sample of 70 students (girls- boys) the sample was divided into the following:

- 1- Control group consists of (35) students "20" boys and "15" girls are taught skills, (under study) in accordance with the method of explanation and the form.
- 2- The experimental group consists of (35) students "20" boys and "15" girls. Students are taught the skills (under study) using the proposed online E-learning program.

#### **Data collection tools:**

- tools and instruments
- High intelligence test
- Skill tests
- Cognitive achievement test
- Proposal E-learning program.

#### **Statistical treatments:**

The researcher made the statistical treatments using SPSS program for some statistical coefficients such as:

Arithmetic mean, standard deviation, bending (curvature) coefficient, intermediary, correlation coefficient, T test, difficulty and facility coefficient, advantage coefficient , relative weight, percentage, improvement rate.

#### **Conclusions and recommendations:**

In the light of study objectives, hypothesis and findings it can concluded that:

- 3- The traditional method (explanation and practice) contribute positively at learning fundamental volleyball skills "under study" and the cognitive achievements for control group.
- 4- The online proposal E-learning program contributes positively at teaching basic volleyball skills "under study" and the cognitive achievement for experimental group students.

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- 5- The online proposal E-learning program contributes positively at teaching basic volleyball skills" under study" and the cognitive achievement more than the traditional method (explanation and practice).

**Recommendations:**

- 1- The necessity of applying the proposal E-learning program when teaching basic volleyball skills for faculty of physical education students- Assuit University.
- 2- Conduct similar studies using online E-learning in other sports activities to proving the efficiency of that method.
- 3- It is important that faculties of physical education should involve the new technological methods within students preparing programs at the academic preparing stage.
- 4- Working to produce many E-learning program in different sports activities in cooperation with education technology specialists and proficient.
- 5- Support the trend toward using the online E-learning program in the faculties of physical education.
- 6- Setting up laboratories for modern technological methods to introduce E-learning programs in universities in general and faculty of physical education in particular.
- 7- Benefiting from the specialist's experiences in designing E-learning websites through symposium, lecturers and training courses for researchers to be aware of the significant of E-learning and how it is designed.







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Skills for faculty of physical education  
Students – Assuit University**

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