

Setting standards for employing the synchronous and asynchronous virtual learning environment in the physical education lesson in light of the reality of digital transformation in Egyptian universities

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Introduction and research problem:

Distance education has become at the present time a widespread phenomenon, and it is seen as a means that transcends geographical, political and cultural distances. Many educational needs, starting from literacy programs to university education and lifelong learning, and the term distance education at the present time is closely linked to the technological development and information technology.

Ahmed Shawky (2018) mentions: Its characteristics are distance education Separation between the teacher and the learner during the education process.

-The need for an educational organization in planning and preparing educational materials.

Use of modern technological means of all kinds.

Providing two-way communication from the teacher to the learner and vice versa using technology.

-The possibility of holding meetings between the learners and the teacher in order to achieve educational and social goals.

The media used in this type of education should be well prepared in

order to reduce the severity of the separation between the teacher and the learner and to provide support for the learners in their studies through the interaction between them(٢:٦٤) .

Kamal Abdel Hamid Zaytoun (2021): Distance learning contributed to improving the quality of education, which eliminates the barrier of space and time by relying on satellites and information networks. Open education, distance learning, e-learning, and virtual learning are among the fruits of scientific progress and technological development, as crises Current education requires the need to search for technological formulas and methods that contribute to overcoming crises, meet educational needs and benefit from technological innovations, and among these methods are distance learning programs through virtual learning that meets educational needs and takes into account the learners' needs, nature and circumstances, and takes advantage of technological developments in the field of communication and information and its use in different learning environments . (٦٣:٥)

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Muhammad Attia Khamis (2022) believes: The educational environment means the place where the learner receives his learning and includes a set of sources, equipment and conditions that give the learner his personality and uniqueness. Research has shown that the environment affects the learner as much as it provides **honesty and realism. Species:**

-The school building and its components, including classrooms, laboratories, scientific laboratories, etc.

-Local community environments, including museums, exhibitions, visits, excursions, etc.

Electronic learning environments, including electronic laboratories, electronic classrooms, electronic and virtual schools and universities(٦:٨٥)

Muhammad Muhammad Al-Hadi (2015) mentions: Information and communication technology is working to reshape educational environments and provide new environments for education by providing new structures and means that communicate and work together, expand access to information and networks, and increase flexibility of time and space for flexible and open learning, and the e-learning environment represents an electronic society It dynamically includes the learner, the teacher or the lecturer, and the e-learning resources. Through this environment, the learner can interact online and remotely with other parties to the learning process, using all kinds of information networks(٧:٦٨) .

And see Cuchran, Jan, and RoKa, R.,. (2013) Thus, e-learning includes the uses of many technologies to facilitate the process of teaching and

learning, and the uses range from simple technological means to more complex and advanced means, as in the case of learning based on online course programs and video conferences based on the web, and these It is a form of e-learning that acts as an umbrella for all forms of learning available through electronic assistance and contribution or assistance and support with technology(٩:٥٧)

Muhammad Attia Khamis (2022) mentions: The increasing use of such modern technologies led to the necessity and inevitability of modernizing educational systems and methods, as there were many projects, studies and research, which tended towards creating virtual and flexible methods for distance learning in virtual learning environments using technological methods, means and tools. Modern, practical and ideal use of information technology(٦:٨٢) .

Muhammad Mahmoud Al-Haila (2017): Educational policies in most countries of the world agree on the importance of employing innovative methods and systems, especially in the electronic and virtual distance learning environment, which is an integrated environment based on modern communication technologies and concepts and multimedia, and this environment tries to change the learning style From indoctrination, memorization, and reliance on memory to the method of collecting and analyzing information to creativity and innovation, through the establishment of an integrated educational environment based on concepts that employ many technological techniques

that help facilitate the mission of educational systems in communicating information and training in various applications of science. (8:67((

McConnell, David (2018) believes that the concept of virtual learning arose as a result of the development of information and communication technology and also as a result of modernizing education patterns under the pressure of needing it anywhere and at any time, as virtual learning allows the learner to interact through the Internet and its applications related to direct communication and the possibility of creating dialogue groups Virtual, the introduction of multimedia technologies, remote video and audio communication, e-mail, bulletin boards, and the features of the electronic library. As it allows the learner to interact through the Internet without the need to move from one place to another, it also allows the learner to study and work at the same time, which supports the concept of lifelong learning.

(١٣:٥٧)

And through the researcher's work as a faculty member at the Faculty of Physical Education, Sadat City University, specializing in teaching methods, he found that in recent times virtual education has become part of the Egyptian state's strategy for digital transformation in Egyptian universities, and the researcher found that virtual education takes place without specific controls and that every member does distance education According to his available personal potential, which undermines

the content of virtual learning and makes it useless. This prompted the researcher to try to set criteria for employing the synchronous and asynchronous virtual learning environment in the physical education lesson in light of the reality of digital transformation in Egyptian universities.

Search goal:

The current research aims to set criteria for employing the synchronous and asynchronous virtual learning environment in the physical education lesson in light of the reality of digital transformation in Egyptian universities.

Search questions:

From the foregoing, the research questions can be identified as follows:

١) What are the criteria for employing the synchronous and asynchronous virtual learning environment in the physical education lesson in light of the reality of digital transformation in Egyptian universities?

search terms:

Virtual Learning Environment:

The term virtual learning environment is used to refer to direct (on-line) and indirect (off-line) interactions from a distance using modern technological media, with different interaction methods between learners and teachers, and the virtual learning environment is an essential part of information systems and operations carried out by any An educational institution where it contributes directly and indirectly to the education process and its management(٥:٨٤) .

Research plan and procedures:

The researcher used the descriptive approach due to its suitability to the nature of this research.

Research community and sample:

The research community is represented by the faculty members of the faculties of physical education in the Arab Republic of Egypt, specializing in curricula and teaching

methods, and their number is (165), and the number of members of the basic research sample is (114), and the number of the exploratory sample is (42). The following table shows the distribution of the sample members under study for the basic study and reconnaissance.

Moderation of distribution of the research sample:

Schedule (1)**The arithmetic mean, median, and standard deviation The torsion coefficient of the research sample is n = 457**

skewness coefficient	standard deviation,	median,	Arithmetic mean,	measuring unit	variants	the number	the sample
٠,٦٥٤	١٠,٠٢	٥٠,٠٠	٥٢,١٨	year	chronological age	(n)	the basic
٠,١٨٠	١٠,٠٨	٥٢,٠٠	٥٥,٦٥	year	chronological age	١١٦	reconnaissance

It is clear from the table that the sample members were homogeneous and it was confined to (± 3), which indicates the moderation of the sample distribution

Steps to build criteria for employing the synchronous and asynchronous virtual **learning environment:**

First: reviewing theoretical frameworks, previous studies related to Arab and foreign references and research on the topic of virtual learning in the field of teaching methods and methods of teaching physical education, including:

Abdel-Gawad Bakr (2020):
Kamal Abdel-Hamid Zaytoun (2021):
Muhammad Attia Khamis (2022):
Muhammad Muhammad Al-Hadi (2015):

Second: reviewing the lists of criteria for employing the synchronous

and asynchronous virtual learning environment previously prepared in the field of physical education teaching methods

Third: Determining the axes for the criteria for employing the synchronous and asynchronous virtual learning environment Through the previous steps, the researcher identified the factors and formulated the phrases in the light of theoretical understanding and analysis, where the factors and phrases were prepared and presented to the experts, and the initial picture formed the criteria for employing the virtual learning environment from (8) factors that fall Beneath it are the criteria for employing the synchronous and asynchronous virtual learning environment

Fourth: Presenting the proposed factors and phrases to the experts:

The researcher presented the proposed factors and phrases for the

scale in its initial form to 42 experts in the field of teaching methods, with the aim of identifying:

To determine the standards necessary to use the virtual learning environment via the Internet in university education in the faculties of physical education

Data collection tools:

The researcher used the following means to collect data and information for the research:

١- Questionnaire forms:

The researcher identified the axes of the questionnaire under study, where the researcher took into account, when designing and designing the questionnaire, the principles and foundations of scientific research until the final form of the questionnaire is reached in order to achieve the goals and questions of the research, through the researcher taking the following steps:

٢- Experts:

Among the criteria for selecting experts were:

To have a PhD in the field of specialization.

He should have experience in the field of not less than 5 years in teaching methods.

٣- Reference scan:

It is one of the most important data collection tools through which the researcher was able to collect information from previous studies and references specialized in analytical studies and e-learning.

٤- The personal interview:

Conducting several personal interviews to clarify the research axes for the sample members and obtain information that is useful in this

research and helps in identifying criteria for employing the virtual learning environment.

Exploratory study:

The researcher conducted the survey during the period from 10/24/2021 AD to the period 10/28/2021 AD, in order to verify the following:

Ensure that the sample members understand the themes and phrases.

Ensure that the sample members understand the conditions and instructions for applying the scale.

- Identify the appropriate response period for the scale.

Extract scientific transactions.

Scientific transactions account

١. Calculating the validity of the list of criteria:

To calculate the veracity of the list of criteria, the researcher presented it in its initial form to the arbitrators and faculty members through the list selection questionnaire, and he also conducted several interviews with some of the arbitrators in order to discuss their opinions about the list items in the elements that were identified for evaluation, where the required evaluation elements were identified as follows :

- The degree of importance of each criterion for each method of interaction.

Formulating the standard phrases linguistically and scientifically.

- Modifying or deleting what you find inappropriate, and adding what you deem appropriate to the research topic.

The opinions and comments of the arbitrators in the light of these elements are summarized as follows:

1- The validity of the content:

Schedule (٢)

The percentage of expert opinions about virtual learning methods in the physical education lesson n = 42

Percentage of approval	Disagree	Agree	Concept	Suggested axes	No
%٩٥,٢	٢	٤٠	Web pages are the main source of information and data through which they are often written in HTML or XHTML, and these pages can provide links and information to other web pages on the network through hypertext links or other linking methods	Web Pages.	١
%٩٢,٩	٣	٣٩	Electronic messages that are sent and received between individuals through the Internet, and through these messages it is possible to deliver text, data, web URL addresses, images, images, video and audio files MB3 & Video, and also provides general information about different sites, and this is done through many programs that provide mail service E-Mail online	Electronic Mail.	٢
%٩٠,٥	٤	٣٨	A web service that contains a collection of files, information, and notes, submitted and collected from many users who have registered on a forum.	Discussion forums Forum.	٣
%٩٢,٩	٣	٣٩	One of the communication services used by most Internet users, and this service allows exchanging files with other computers on the Internet, such as downloading a specific file from a web page or exchanging files between people with each other	File Transfer Protocol.	٤

Follow Schedule (٧)
The percentage of expert opinions about virtual learning methods in the physical education lesson n = 42

Percentage of approval	Disagree	Agree	Concept	Suggested axes	No
%٨٨,١	٥	٣٧	It is software that allows a group of individuals to write and send text messages, and these messages are seen and read by everyone in the chat room	Chat Rooms	٥
%٨٥,٧	٦	٣٦	Through this method, the individual can hear a voice and see a live image at the same time to the other user who is connected to him and transmit his voice and image to him as well, and this can be applied with only two individuals or with a group of individuals		٦
%٨٥,٧	٦	٣٦	This service allows its users to share Program Share, Image Share, or Game Share with another user at the same time	Audio & Video Conferencing	٧
%٨٥,٧	٦	٣٦	It allows the student to draw and write on it, which allows others within the study program to see what the student draws or writes, so communication takes place between the student, his colleagues, and his teacher	Application Share service	٨
%٤٧,٦	٢٢	٢٠	It is to upload files to an Application, and the student can download the file	The White Board	٩
%٤٧,٦	٢٢	٢٠	It is a text communication process through a text-only website or application	File upload service.	١٠
%٥٧,١	١٨	٢٤	It is a process of communication through the website or the photo application only	Text Chat.	١١
%٥٤,٨	١٩	٢٣	It is a process of communication through the website or the application of voice chat only	Image Share.	١٢

It is clear from Table (2) that all the axes that were presented to the experts have been approved in percentages higher than (85%), which is the percentage that the researcher accepted.

Then the researcher presented the axes to the experts to express their

opinion on the status of the relative importance of each axe after setting the hypothesis that the number of the questionnaire phrases ranged from (124) phrases, in order to identify the representation of each axe by a number of certain phrases in the light of its relative importance

Table (٣)
The relative importance of the axes of virtual learning n = 42

statements representing the axis in the questionnaire	Relative importance is "approximately" the number of	interlocutor	No
٣٠	%٢٤,٣٩	Web Pages.	١
٢٧	%٢١,٩٥	Electronic Mail.	٢
١٠	%٨,١٣	Discussion forums Forum.	٣
٧	%٥,٦٩	File Transfer Protocol.	٤
٣٠	%٢٤,٣٩	Chat Rooms	٥
٧	%٥,٦٩	Audio & Video Conferencing	٦
٤	%٣,٢٥	Application Share service	٧
٨	%٦,٥٠	The White Board	٨

Schedule (٤)
The percentage of expert agreement on the statements of the questionnaire : ١ Web Pages axis. . n = 42

approval the agreement	Repetition	suggested phrase	No
%٩٥	٤٠	The virtual learning environment offers a chat service to its users to provide ease in controlling its characteristics and unifying the learning environment.	1.
%٩٣	٣٩	Large numbers of people should not participate in the discussion, and it is preferable that the number of participants not exceed five.	2.
%٩٠	٣٨	The duration of the conversation ranges from 30 to 60 minutes.	3.
%٩٥	٤٠	The necessary conditions and what the student must follow to participate in the dialogue are displayed when they log in to the chat room.	4.
%٩٨	٤١	The student must read the conditions for participating in the conversation in the general instructions for studying the subject.	5.

Follow Schedule (٤)
The percentage of expert agreement on the statements of the questionnaire
: Web Pages axis. . n = 42

approval the agreement	Repetition	suggested phrase	No
%٨٦	٣٦	Allowing the student the freedom to enter or leave the chat room so that the link (Login) when the student signs and enters the chat room turns into (Logout).	6.
%٨٨	٣٧	A list of the names of the current users in the room appears in front of the student, indicating the presence of his colleagues or not.	7.
%٩٠	٣٨	The existence of a link (Participation Conditions) - and it displays the conditions of participation and what the student must follow when participating in the dialogue within the chat room - in order to provide reference to it at any time.	8.
%٩٠	٣٨	It provides some simple formatting commands such as text size, color, and some simple effects.	9.
%٩٠	٣٨	The topic of the current conversation and the number of subscribers are mentioned at the top of the dialog window.	10.
%٨٨	٣٧	There is a link (private chat) so that the student can send a comment or a private message to a colleague or to the teacher.	11.
%٨٦	٣٦	The Send File service is available to the remaining individuals participating in the conversation.	12.
%٩٣	٣٩	Provides a service (Share Photo Show) with the rest of the participants in the dialogue.	13.
%٨٨	٣٧	The teacher is allowed to cancel the private chat feature at certain times, according to the requirements of the educational process.	14.
%٨٨	٣٧	Students are warned if they violate the terms of participation or the etiquette of dialogue only once, and if they are repeated, the student will be expelled.	15.
%٩٠	٣٨	The teacher can remove or expel a non-compliant student from the room when necessary.	16.
%٩٣	٣٩	The teacher can block certain people from participating in the conversation by refusing them entry to the room.	17.
%٩٥	٤٠	The existence of a fixed place, which may be called the bulletin board, in which the teacher presents the important points in the dialogue that were spoken.	18.
%٩٨	٤١	Immediate stimulation of distinguished students in the dialogue by including their names and what they have done in the distinction board in order to increase their motivation and motivate their colleagues.	19.
%٩٨	٤١	The teacher takes into account the linguistic foundations and correct scientific expressions in the dialogue.	20.

Follow Schedule (٤)
The percentage of expert agreement on the statements of the questionnaire
: Web Pages axis. . n = 42

approval the agreement	Repetition	suggested phrase	No
%١٠٠	٤٢	The teacher explains words and terms that have more than one meaning in the context of the dialogue.	21.
%٩٨	٤١	Provide the opportunity for all students to participate in the dialogue, express opinions, and ask questions and inquiries.	22.
%٩٨	٤١	Alert the students in the room, noting that they do not participate or are late in dialogue or interaction with their classmates.	23.
%١٠٠	٤٢	The teacher directs the dialogue with the names of the students, as this increases their motivation to participate and interact.	24.
%٩٣	٣٩	The teacher tries to spread some sentences that develop social communication and a sense of fun among the group members in an attempt to bring them closer to the realistic learning environment.	25.
%٩٣	٣٩	The teacher allocates time at the end of the dialogue to present a quick summary of the main points in the topic of the conversation.	26.
%٩٠	٣٨	The teacher assigns the students some tasks related to the topic of the current conversation, how to deliver it, and the last to be delivered.	27.
%٩٣	٣٩	The date of the next conversation, the topic of the dialogue, and what the student can prepare are noted.	28.
%٩٥	٤٠	The dialogue is stored electronically in the virtual environment and is included in the files attached to the unit as a reference for students at any time.	29.
%٩٠	٣٨	The stored file data for the conversation contains the topic of the conversation and the date it took place.	30.

The researcher was satisfied with (85%) or more of the total

opinions of the experts to accept the questionnaire statements

Table (°)
The percentage of expert agreement on the statements of the questionnaire
: † Electronic Mail: . n = 42

approval the agreement	Repetition	suggested phrase	No
%٩٠	٣٨	The virtual learning environment offers an e-mail service to its users to provide ease in controlling its properties and unifying the learning environment.	1.
%٩٣	٣٩	Assigning an email to each member of the virtual learning environment to facilitate communications within the educational environment.	2.
%٩٥	٤٠	Not allowing students to change their username in their e-mail in the virtual learning environment, in order to facilitate access to them by the teacher.	3.
%٩٨	٤١	Sending a periodic e-mail message by the teacher or the administration to the students every specified period, depending on the nature and duration of the study program, to confirm topics, activities, tasks, and learning resources.	4.
%٩٨	٤١	The virtual learning environment offers an e-mail service to its users to provide ease in controlling its properties and unifying the learning environment.	5.
%١٠٠	٤٢	Assigning an email to each member of the virtual learning environment to facilitate communication within the educational environment.	6.
%٩٨	٤١	The e-mail that the teacher sends to the students contains links to topics, resources, or exercises that mention a comment, explanation, or question about.	7.
%٩٨	٤١	The size of the message is appropriate and not too large, so that it contains an appropriate amount of information and avoids extensive information.	8.
%١٠٠	٤٢	The teacher sets clear instructions for the times that he will check the messages, such as allocating time for an hour or two every 48 hours or every week to check the messages according to the time allotted for the study program.	9.
%٩٣	٣٩	The email contains pictures and graphics that show the content of the message and information that directs the reader to more pages on the web.	10.
%٩٣	٣٩	Save desired messages easily.	11.
%٩٠	٣٨	The sentences in the e-mail are clear and easy to style so that the student does not take time to understand the content of the message.	12.
%٩٣	٣٩	Assign students to analyze the texts and problems that the teacher sends to students and rely on that in evaluation.	
%٩٥	٤٠	Each student, through e-mail, presents his opinions, point of view, and conclusions, and presents the arguments supporting those opinions.	13.

Follow Table (°)
The percentage of expert agreement on the statements of the questionnaire
: † Electronic Mail: . n = 42

Approval the agreement	Repetition	suggested phrase	No
%٩٠	٣٨	Collecting students' emails that contain their comments and opinions in a list that also contains a link to the topics that are commented on and it is called Hyper mail.	14.
%٩٣	٣٩	Each student sends an email every specific period specified by the teacher.	15.
%٨٨	٣٧	Each student comments on the views of his peers in the group via e-mail and responds to criticism.	16.
%٨٨	٣٧	The e-mail that the teacher sends to the students contains links to topics, resources, or exercises that mention a comment, explanation, or question about.	17.
%٩٠	٣٨	The size of the message is appropriate and not too large, so that it contains an appropriate amount of information and avoids extensive information.	18.
%٩٣	٣٩	The teacher sets clear instructions for the times that he will check the messages, such as allocating time for an hour or two every 48 hours or every week to check the messages according to the time allotted for the study program.	19.
%٩٥	٤٠	The students write the name of the topic and the summary of the question in the title of the e-mails, in order to facilitate opening and sorting the messages.	20.
%٩٨	٤١	Divide students into groups and appoint a leader for each group who coordinates, collects and arranges questions and inquiries, to facilitate the task for the teacher.	21.
%٩٨	٤١	The teacher allocates an answer or response to repeated messages or questions in the e-mail and makes it available in a clear place on the course web page to reduce the number of messages from students.	22.
%١٠٠	٤٢	The teacher allocates a file for each topic that contains the response to similar messages in the question or inquiry, then classifies the required response for each learner.	23.
%٩٨	٤١	An Address Book is available for each user to add their own addresses.	24.
%٩٨	٤١	Each student is allocated a large storage space for attachments, not less than 50MB.	25.
%١٠٠	٤٢	The presence of special filters in the e-mail that sort the e-mails according to the filters provided by the virtual learning environment.	26.

Second: the validity of the internal consistency

A- The researcher presented the expressions of criteria for employing

the virtual learning environment to the aforementioned experts, in order to express their opinion

B- The validity of the internal consistency: the value of the correlation coefficient of the degree of each statement was calculated with the

total degree of the axis to which it belongs, on the main sample, as shown in the following table

Schedule (١٢)

Correlation coefficient between the phrase and the sum of the first factor "Web pages". n = 42

coefficient	standard deviation	arithmetic mean,	Phrase number	coefficient	standard deviation,	arithmetic mean,	Phrase number,
*0.749	0.61064	2.0000	16	*0.444	0.40338	2.8000	1
*0.834	0.49403	2.6000	17	*0.771	0.49030	2.6167	2
*0.364**	0.62414	1.9833	18	*0.390	0.49030	2.3833	3
*0.504	0.75465	2.2000	19	*0.497	0.49717	2.4167	4
*0.426	0.65073	1.9833	20	*0.749	0.75465	2.2000	5
*0.412	0.73857	1.7833	21	*0.771	0.49030	1.6167	6
*0.749	0.61064	2.0000	22	*0.320	0.39020	1.8167	7
*0.649	0.89237	2.0167	23	*0.771	0.49030	1.6167	8
*0.601	0.66384	2.0000	24	*0.365	0.80675	2.4000	9
*0.593	0.49030	2.3833	25	*0.332	0.74485	1.7667	10
*0.468	0.75071	2.2500	26	*0.818	0.40338	2.2000	١١
*0.364	0.62414	1.9833	27	*0.561	0.82270	1.6333	١٢
*0.593	0.49030	1.3833	28	*0.406	0.65073	1.9833	١٣
*0.381	0.82527	2.3833	29	*0.655	0.49403	2.4000	١٤
*0.391	0.74769	2.3167	30	*0.358	0.80675	2.4000	١٥
	0.64071	63.5166					

The tabular t value at a significant level of 0.05 is 0.144

Schedule (١٣)

Correlation coefficient between the phrase and the sum of the second factor "Electronic Mail". n = 42

coefficient	standard deviation	arithmetic mean,	Phrase number	coefficient	standard deviation,	arithmetic mean,	Phrase number,
*0.624	0.62414	1.9833	١٥	*0.624	0.62414	1.9833	1
*0.620	0.39020	2.8167	16	*0.393	0.49030	2.6167	2
*0.620	0.39020	2.1833	17	*0.406	0.81146	2.4500	3
*0.346	0.74769	2.5167	18	*0.847	0.58125	2.0333	4
*0.696	0.36008	1.8500	19	*0.365	0.40338	1.8000	5
*0.395	0.79173	1.5167	20	*0.419	0.80447	2.1167	6
*0.620	0.39020	1.8167	21	*0.378	0.49403	2.4000	7
*0.620	0.39020	2.8167	22	*0.311	0.89632	2.1000	8
*0.391	0.74769	2.3167	23	*0.392	0.71702	1.8333	9
*0.329	0.12910	2.0167	24	*0.696	0.36008	1.8500	10
*0.834	0.49403	2.4000	25	*0.696	0.36008	2.8500	١١
*0.949	0.90198	2.0000	26	*0.437	0.44595	2.2667	١٢
*0.426	0.49972	2.4333	27	*0.671	1.00338	1.9000	١٣
*0.302	0.75465	1.8000	28	*0.366	0.49717	2.4167	١٤
	0.9688	64.69674					

The tabular t value at a significant level of 0.05 is 0.144

Schedule (١٤)
Correlation coefficient between the phrase and the sum of the third factor.
n = 42

coefficient	standard deviation	arithmetic mean,	Phrase number	coefficient	standard deviation,	arithmetic mean,	Phrase number,
*0.365	0.40338	1.8000	6	*0.624	0.62414	1.9833	1
*0.419	0.80447	2.1167	7	*0.393	0.49030	2.6167	2
*0.378	0.49403	2.4000	8	*0.406	0.81146	2.4500	3
*0.311	0.89632	2.1000	9	*0.847	0.58125	2.0333	4
*0.392	0.71702	1.8333	10	*0.624	0.62414	1.9833	5
	0.77565	21.3166					

The tabular t value at a significant level of 0.05 is 0.144

Schedule (١٥)
Correlation coefficient between the phrase and the sum of the fourth factor "File Transfer Protocol." n = 42

coefficient	standard deviation	arithmetic mean,	Phrase number	coefficient	standard deviation,	arithmetic mean,	Phrase number,
*0.620	0.39020	2.8167	5	*0.696	0.36008	2.8500	1
*0.620	0.39020	2.1833	6	*0.437	0.44595	2.2667	2
*0.346	0.74769	2.5167	7	*0.671	1.00338	1.9000	3
				*0.366	0.49717	2.4167	4
	.65126	16.9501					

The tabular t value at a significant level of 0.05 is 0.144

Presentation and discussion of results.

Show results:

Table No(٢١) .

The value of (Ca2) and its significance for the difference in the response of the research sample about the criteria for employing the virtual learning environment, web pages. In the physical education lesson, n = 116

Ca2	Disagree	Agree	M
139.66	13	103	1.
224.07	1	115	2.
186.48	6	110	3.
110.34	18	98	4.
127.52	15	101	5.
193.72	5	111	6.
172.41	8	108	7.
172.41	8	108	8.
104.90	19	97	9.

Follow Table No(٢١) .
The value of (Ca2) and its significance for the difference in the response of the research sample about the criteria for employing the virtual learning environment, web pages. In the physical education lesson, n = 116

Ca2	Disagree	Agree	M
179.38	7	109	10.
158.90	10	106	11.
201.10	4	112	12.
179.38	7	109	13.
193.72	5	111	14.
216.28	2	114	15.
89.38	22	94	16.
208.62	3	113	17.
179.38	7	109	18.
208.62	3	113	19.
121.66	16	100	20.
145.93	12	104	21.
121.66	16	100	22.
110.34	18	98	23.
133.52	14	102	24.
89.38	22	94	25.
89.38	22	94	26.
58.00	29	87	27.
208.62	3	113	28.
165.59	9	107	29.
179.38	7	109	30.

Discuss the results:

The researcher's findings agree that the virtual learning environment should be interactive that stimulates and encourages the practice of learning. He clarified the learner's position in the virtual learning environment, and stressed the need for the learner to be interactive rather than passive, and that this environment should also be interactive and motivate him to learn through practice.

Leah agrees; Amy; some; Yahga (2019) It was taken into account in the design of virtual learning standards

that there be real and realistic patterns of interaction. Therefore, we can say that virtual learning environments are interactive environments. Developed by the International Learning Association, The National Education Association, on the importance of interaction in the field of learning, and that it is an important pivotal element in teaching and learning, as it is the primary and main element for building and developing a knowledge and education society(٩٦ :١٤)

Penn State, Lincoln, Cheney Univ: (2018) control access to planned curriculum elements that can be recorded and assessed element by element and track student activity and achievement using simple learning management elements that allow teachers to define and organize courses The necessary training or curricula, as well as providing the required materials and activities during the learning process in order to direct and follow up the level of the learner's progress and support direct (on-line) and indirect (off-line) education, including access to various learning resources, assessment and counseling, and learning resources These are provided by professionals, available for use by learners, serve the goals of the learning process, and are often self-development(١٥:٣٣) .

And what was mentioned by Muhammad Attia Khamis (2022) agrees: Facilitating two-way communication between the learner on the one hand and the teacher, educational materials and learning resources, and peer groups that build a sense of group identity and embody common interests that support the cooperative learning process, as well as a method of communication with specialists in areas related to the subject of learning, Finally, management systems(٦:٨٨)

Conclusions and recommendations:

Conclusions:

The researcher reached the development of criteria for employing the synchronous and asynchronous virtual learning environment in the

physical education lesson, which are as follows

- 1- Web Pages: It included (34) thirty-four standards.
- 2- Electronic Mail: It included (22) twenty-two standards.
- 3- Discussion Forum: It included (10) ten criteria.
- 4- File Transfer Protocol (FTP) Files Transfer Protocol: It included (7) seven standards.
- 5- Chat Rooms: It included (30) thirty standards.
- 6- Audio & Video Conferencing: It included (7) seven standards.
- 7- Application Share: It includes (4) five criteria.
- 8- The White Board: It included (8) eight standards.

Recommendations:

- 1- The need for criteria for employing the virtual learning environment for the educational content of the subject of teaching methods
- 2- The importance of applying the criteria for employing the virtual learning environment periodically on e-learning
- 3- Caring for special training courses to define and disseminate the standards for employing the virtual learning environment and how to harmonize them
- 4- Conducting more applied research in the field of standards for employing the virtual learning environment.

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