The virtual school as a mechanism to promote distance education in light of the Corona pandemic

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Abstract:

the virtual school is considered one of the most important virtual educational institutions that have been approved by countries in light of the Corona pandemic to ensure the progress of the educational process, and this is through preparing an interactive electronic platform between the teacher and students, through which he receives the various lessons and curricula that are presented in attendance, but they differ in being Its educational operations are based on modern means and technologies and electronic platforms.

Based on the foregoing, this article came to discuss the issue of virtual schools, which is in line with the current events and the health crisis that afflicted the countries of the world, which is the Corona or Covid 19 pandemic, considering that it is one of the mechanisms that contribute to the promotion of distance education, where we dealt with the types of virtual schools. With a mention of its most important characteristics, advantages, advantages and disadvantages, the most important global experiences in the field of applying virtual schools and the difficulties facing their application.

Keywords: virtual school, distance education, electronic platforms,

corona pandemi

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1. INTRODUCTION:

Education is one of the most important and sensitive sectors of specialinterest and renewalacross all societies.

Perhaps the most important manifestations of the renewalwitnessed by the educationsector, wefind the adoption of technology and digital technology as an aidmechanism in overcomingmany challenges and problems. Technology and focus on integrating technological and digital media in all aspects of the educational process by educational institutions, in line with the digital transformation witnessed by the global education system, This is in line with the digital transformation witnessed by the global education system, This is in line with the digital transformation witnessed by the global education system, This is in line with the digital transformation witnessed by the global education system, whichwas the beginning of the emergence of a new field of education, which is distance education "virtual environments and e-learning" in which interaction takes place between both the teacher and the learner with the adoption of the same programs and curricula in the presence education, but here by default, The emergence of this type of educationis the real beginning of the emergence of the concept of the virtual school, whichis one of the forms of educational renewal and one of the most important mechanismsthat have been adopted by the countries of the world in facing the traditional problems that their system has known, but it has emerged more during the crisis and the Corona pandemic, which arranged It resulted in a complete closure and paralysis in educational institutions and a halt in the course of the educational problems. Education through virtual schools was a parallel path to traditional urban education. Many countries were able to proveits efficacyde spite the difficultiesen countered in its application.

From this point of view, we tried, through this article, to learn about the role of virtual schools in promoting distance education in light of the Corona crisis, so the problem of the study was as follows : What is meant by a virtual school ? What is the importance of applying these schools in the education sector ? What are the most important requirements for its application and success, whethermaterial, human or technological ? How have virtual schools contributed to changing the job roles of teachers in light of the pandemic ? And what are the most important global experiences in the field of applying this type of schools ? And what are the most important difficulties that face its application ? .

2. the conceptual implications of the study :

2.1Virtual School:

It is "that which does not have a specific place on the ground, and where students study from their homes interactively, as if they are on seats in the classroom, and thismeansthat the studentis in direct contact with the class teacher, through the closed circuit or the Internet." (Al-Shuaibi, April 2021, p. 40).

Proceduraldefinition :

Procedurally, wecandefine the virtual school as one of the most important ways and means in which the educational process takes place remotely, meaning that student sreceive lessons from their homes, but within an interactive range withteachers, through multiple means of communication and in an electronic format.

2.2-Online education :

It is known as an innovativeway to deliver accessible learning environments, which are well-designed, interactive and learnercentered, to anyin dividual, any where or anytime, by utilizing the features and resources available in many digital technologies

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together with other types of educational materia lssuitable for open and flexible learningen vironments. (Al Roqi Al Otaibi,

2019, p. 234).

Proceduraldefinition:

It is one of the educational systems in which students are far from the university and professors, where education is through multiple means of communication, where lectures are presented in an electronic format.

2.3Corona (Covid 19):

Covid-19 disease is an infectious disease caused by the new lydiscovered Corona virus, and there was no knowledge of the existence of this virus, and this emergingdisease appeared before the outbreak of the outbreak in Wuhan in December 2019 (http://www.unrwa.org/sites/default/files/health_awareness_on_coronavirus_civi)

Proceduraldefinition:

It is a dangerous virus that causes diseases at the respiratory system level in humans, as itcomes in the form of influenza, which may some times lead to death in humans, especially the elderly, those with chronic diseases, and thosewith fragile and weakimmunity.

3. The concept of a virtuale ducation teacher :

It is the teacher whointeracts with the learner electronically, and assumes the burden of educational supervision according to the progress of the learning process, and often this teacheris not linked to a specific time or place to work, but hisdealin gswith the educational institution are the number of courses he supervises and isresponsible for and the number of student sregisteredwithhim. (Hussein Hassaniya, 2019, p. 120).

4. .Characteristics and advantages of virtual schools :

Nasr and Ahmed (2017) identified some of the characteristics of virtual schools, including :

1. Application sharing This sharing allowstwo or more learners to work and interact with the application at the same time.

2. Siderooms : where the teacheris able to divide the learners in the classroom intoside groups through which opinions and interactions between learners and science are exchanged.

3. Learners management and follow-up : through which learners are analyzed and evaluated or their use of materials within the learning environment isanalyzed.

4. Supporting learners through forms of communication between teachers and learners : Providing supportive materials such as information about the course, and supporting questions answered.

Learner's Tools: This isrepresented in providing a web page for eachlearner, through which hecandownload courses, viewdiaries and electronic calendars.

6. Consistency and customizability of look and feel : itprovides an easy interface, which helps learners to quickly understand and use.

7. File transfer and circulation : If files are transferred directly between the teacher and the learner, and deal withthem in anyform of interaction.

8. Direct communication between the teacher and the learner: to ensure the privacy of each learner through the feature of private messages between them

9.. Directing written questions to the learners and their answers. (Hamzi, 2021, p. 50, 51).

5. the importance of virtualschools :

There have been numerous studies that emphasized the importance of the virtual school. Azzouz and Ahmed'sstudy emphasized that the virtual school and e-learning constitute a stage of transformation in the educational model and that the entrances canbeused to improve the quality of education and achievee qual educational opportunities. In addition, Al-Ahmari'sstudyOn the other hand, it was mentioned in Barbouret Reeves 2009 p.412) that virtual schools expand the scope of learning and provide high-quality educational opportunities that give students freedom and flexibility in choice. on the other hand, it was mentioned in Barbouret Reeves 2009 p.412) that scope of learning and provide high-quality educational opportunities that give students freedom and flexibility in choice. on the other hand, it was mentioned in Barbouret Reeves 2009 p.412) that virtual schools expand the scope of learning and provide high-quality educational opportunities that give students freedom and flexibility in choice.

The importance of virtualschools has been great lydemon stratedduring the recen thealthcrisis that swept the whole world due to the Corona virus known as Covid 19, and therefore virtual schools have become a necessity and not a luxury as the education pattern came as a responsewithoutprior planning for it, al thoughthere were someshyattempts to includeit before Thos einterested in developing education and employingit in a simple way in educational institutions, but in the era of Corona, virtual schools came as a necessary measure in light of transfor ming problemsintoopportunities, as distance educationmaybe the onlyway to save the school year in all countries of the world (Al-Saadoun, Al-Bazai, 2021, p. 151.150).

6. the basic requirements for the application of virtual schools :

1- A trained teacher in computer skills in dealing with the learner in virtual schools.

2- A computer specialist whoi strained to makee ducational programs.

3- A student with competencies thate nablehim to use the computer in learning and to benefit from virtual learnin genvironments.

4 – The objectives of the lesson and its outputs are well explained to the learner teacher.

5-Explanation of the lesson in a way of teaching commensurate with the students of the virtual school.

6-Self-assessment.

7-An educational administration capable of leading and developing learning environments.

8-Advanced technological capabilities that are available at the lowestcost.

9-A scientific environmentthat encourages self-learning and continuous and provides ways to achieve this without obstacles. **(Ibrahim Abdel, 2016, pg. 3)**.

Through the above, we cansay that the success of the application of the virtual school requires the availability of a set of conditions and requirements, perhaps the most important of which is the availability of technological sufficiency and dealing with technologies for both sides of the educational process, with the presence of advanced technology that can be used in building an interactive virtual environment, providing the Internet as an important foundation in addition to There is social and familya wareness of the importance of this type of school with the contribution to support gthi sproject and helping the teacher while carrying out his educational process in his virtual environment.

7. Types of virtual schools :

In terms of the method, learning can b edivided through the virtual school in a synchronous or asynchronousmanner. Synchronous communication requires punctuality, where the twosides of education are present simultaneously from different places, whil easynchronous communication refers to the possibility of communication between the twosides of education at different times and from different places that does not require presence. In real time.

As for Russell &Holkener, Russell &Holkener, and Juszczyk& Kim, Juszczyk& Kim see that it isdivided int othree types, and this division maybe the closest to the study :

1. School of cyberspace : which does not require the presence of the student physically, and is a group independent of the geographical location.

2.HybridSchools : Students are allowed to complete large portions of their work from home or other centers, but are required to regularly attend traditionalschool for activitiessuch as sports and arts to encourage physical fitness and socialization.

3.Training schools : Students spendmost of their time in a traditional school, but in individual subjects that are taught by default when there is no trained teacher available in the school or to support the education of the gifted or to supplement the students' remedial plans. (Al-Saadoun, Al-Bazai, 2021, p. 150).

Despite the different types of virtualschools, in essence all of themsought to ensure the continuity of the educational process and to ensure that the learner obtains information and overcomes the problems that direct it. All this in light of the conditions provided to ensureitssuccess.

8.Pros and cons of virtual school :

8.1The advantages of the virtualschool :

The advantages of the virtual school are represented in several points, including :

- Achieving the principle of continuing education for individuals.
- Helpingteachers to deliver the scientificmaterial to the learners.

Helping to integrate technolo gyinto education.

- Increase the motivation of learners to ensure an increase in their educational attainment.
- It leads to interaction and communication between learners and teachers.
- Providing all means of interaction between the learner and the learner.
- Helps divide the learnersinto small groups in interactive roomswith audio and video. (, Hamzi 2021, p. 51)

8.2The disadvantages of the virtualschool :

Musa (2011) reported that the disadvantages of virtual schools in the following points :

Learner stake advantage of the Internet in side chats.

It requiresgreat effort by teachers in theirat tempts to possess the necessary virtualskills and abilities.

The occurrence of technicalmal function smaydisrupt the workflow and impede the educational process.

It may lead to the learners beingpre occupied with the computer and not fullyconcentrating on the scientific content.

Irregular times for questions and answers between teachers and students.

The learners' lack of adaptation to duties or tasks, and the difficulty of the learner communicatin gwith the teacher after the end of the lesson.

The lack of electronic links to roam with in the libraries through the virtual schools.

Dehumanization of the teacher and learner'slack of face-to-face interaction.

Someseeitbecoming a competitor to traditional education, leading to a mass exodusto wards virtual universities.

Marginalizing the role of the teacher and underestimatingits importance. (Hamzi, 2021, p. 51)

From this point of view, it can be said that virtual schools are a double-edged sword in the sense that they have pros and cons at the same time, as despite the distance between students and teachers, hecancrystallize his ideas, directions, opinions and interaction, even if it is virtual, but what is wrong with him is that students In light of the absence of supervision, hemay use technological means for other purposes that may lead to the deterioration and regression of his scientific level.

9. the roles and functions of the teacher in light of the requirements of the virtual school :

The roles and responsibilities of the teacher in virtual or online schools varydepending on the grade levelthey are studying and the e-learning model they follow. Through their adoption of a set of educational strategies based on traditional or contemporary educational models and theories

The success of the teacher in employing information and communication technology to achieve the goals of virtuallearning depends on the degree to which hepossesses competencies that enablehim to employ information and communication technology with high efficiency, in addition to striving to continu ously developit in order to carry out histask to the fullest. It is implemented in addition to providing an appropriate learning environment. (Hassan Husseiniya, 2019, pp. 127, 128) The role of the teacher was clearl ymanifestedduring the Corona crisis, and education systems in most countries turnedinto virtualeducational systemsremotely, with the aim of solving the currentcrisis that witnessede ducational institutions without preparing teachers and students and pre-designing curricula and programs. The only one for knowledge, and hisroleis not limited to indoctrination, but rather in line with the development of technology and the change in methods of continuing education in the twenty-first century. We willlearn about these roles as follows :

The teacher as an innovator :

That is, the teacher is not required to give the students a lot of information, but ratheritisnecessary for the students to have the ability to think creatively and creatively, in order to obtain the information and use it in solving future problems, and this mayonlyhappen through the creative teacher with the innovativemind that encourages and inspires the soudent witz the nécessita of Reneigeas and come up witz new ides and solutions to the obstacles to the succès of the educationalprocess. (Al-Saadoun, Al-Bazai, 2021, p. 153)

✓ The teacher as a designer :

The field experience of the teacher'srole in design should extend within the virtual school throughout the semester. The relation ship between expert teachers and novice teachers online should begin with a meet-and-greet before or at the beginning of the field experience, and this meeting should in clude a proactive reverse process, in which both The teacher and the online collaborator withea chother write a list of whattheyneed for this virtual experience and of course thiswill help in ensuring all participants. (Hassan Hosnia, 2019, p. 128, 129)

✓ The teacher as a researcher : The teacher's practices as a researcher can besummarized as follows :

- Ensure the rooting and transfer of scientifichonesty in transferring and documenting the knowledge of the student.
- Raising the value of spreading knowledge to the student.
- Attendi ngseminars, conferences and courses and reading articles related to everything new in the specialty.
- Doingresearch and assigning the student to conductit.
- Use databases and the Internet and not belimited to one source of knowledge.
- Belief in the effectiveness of scientificresearchresults and use them in addressing educational problems.
- Ensure the application of the rules of scientificresearch.
- Confirming the values of constructive criticism of educational issues. (Al-Saadoun. Al-Bazai, 2021, p. 153)

The teacher as a presenter :

His job as a presente rrequires knowledge of some of the most important competencies :

Providinge lectronic educational content in proportion to the capabilities of the learners, linking the course pages to facilitatedealing withit, using effective teaching methods, specifying multimedia from audio, image, text and graphics to which the information willbetranslated. (Hussein Hassaniya, 2019, p.129).

he teacher as a guide:

The teacher can have some guiding roles in virtual schools, which are as follows: Teaching in the virtual school in such a way that students feel the same free expression of ideas, the level of sense of community and the exchange of opinions, in addition to the formation of social and health conscious behaviors, as is the case in traditional schools, even if without a direct view of the

students. Effectiveness in communicating with students and parents through modern applications. Mutual relations on respect with students without tyranny and openness of the teacher to participate in compromise. (Al-Saadoun, Al-Bazai, 2021, p. 154).

✓ The teacher as an assessor :

His job as an evaluatorrequires knowledge of some of the most important competencies :

Setting standards for evaluating the various performances (knowledge, skill, and emotional), selectingelectronic tests for students, and setting adequateprocedures to preventcheating.

For example, a professor who is a designer and course lecturer will evaluate all the notes for 11 out of 15 weeks, and the evaluation will be used in the final grades of the participants as part of the course accreditation. This evaluationis a reliable procedure of other professors join in the evaluation, somemay not agree aspects of their evaluation with the original evaluation. (Hussein Hassaniya, 2019, p. 129)

✓ The teacher as a technology user :

The teacher's employment of technology in the educational processis as follows :

1- Adequate knowledge of the basic concepts of using technology in the teaching process.

2- Using technology in an organize dmanner and arrange daccording to the priority of its use in educational situations.

3- Stimulating the minds of the learners beforeusing the technologic aldevices and forming a positive attitude towards the use of technology for them.

4- Using technology to communicate with students and parents.

5- Keepingabreast of technologicaldevelopments and knowingtheirlatest publications that can be employed in the educational process.

✓ The teacher as a class manager :

The teacher in the traditional education used to playhisrole by controlling the class and taking control of every thing that happens in the classroom, either in hisrole in the e-learning system such as the virtual school, makinghim the director of the educational process as a whole, where he chooses the methods of displaying the content, the method of evaluation, educational activities and others, and thus in turnthis It makes the educational process an effective process, and ittakes them all the time for fruit ful work, and thisis what the results of the study of Al-Maliki 2014 indicated with the organizational effectiveness of the teacher whene mpoweringhim as a manager. **(Al-Saadoun, Al-Baza, 2021, p. 154).**

9 – International experiences in the field of applying virtual schools :

1- Alabama High School :

This school is a service provider for Alabama public schools, and this school enables state school administrators to register their schools and their students there.

Among the benefits of this school are the following :

Students in small rural school swith limite dteaching resources will be able to takecore courses and important choices.

Empoweringmany students in the state who cannotobtain an advanced diploma due to the lack of teachers.

▶ It is also use ful for students who want to complete a course or calculate a lost grade. Alternative schools and summer schools use school courses regularly.

Student sget individual care fromel ectronictutors on a daily basis, and this does not alwayshappen in traditional classrooms, and is important for many students. (Al-Ahmari, 2019, pp. 318-319).

2-Florida Virtual School :

Florida Virtual Schoolbeganitsactivities in August 1997 as a project linking thet woregional public schools, Orange county public school and Alachua county school, which were launched on the Internet in 1996, with a batch of 14 educator swhoserved in the functions of administration, education and development.

The project's mission was to complete a high school online by 2001 and ensure student services there to enable students to successfully transition into post-secondary institutions and into the workplace.

The mission of the Florida Virtual Schoolis to providestudents with high-quality technology-based educational assumptions to acquire the knowledge and skills acquire the knowledge and skills acquire the virtual school in the 21st century AD. (Al-Ajili, 2009, p. 9)

3-Constitutional Electronic School via the Internet :

3-1- The tasks of this ECS school are :

Benefiting from the current technology, and removing the obstacles of time and physicalspace.

Expand educational opportunities for all students, and developrich, collaborative and vibrant learningenvironments.

Nurturing organizational thinkingskills, facilitating the development of life longlearners in the information age.

3-2- Educational features and study method in this school :

Detailed study plans to achieve the needs and desires of eachindividual, and qualified teachers.

Project-based learning.

Kansas State Assessment Tests.

Standardized tests such as the Terra Nova tests.

-There is a toll-free phone numbe rthat provides constant administrative and technical support.

En couraging students' parents to participate in their children'seducation through direct contact withteachersthrough e-mail or telephone and online grades.

The participation of students and parents in managing the ECS site through member ship or affiliation as representatives of the site management team. The schooliscontacted through the student's login to the site. The site also provides students with a dailye ducational video with flash technology, one of the topics of the various courses. (Al-Ajili, 2009 p. 10, 11)

4-Salem and Caesar School on the Internet :

SK Online Schoolis an alternative program to a primarily online curriculum for students who live in a public school district to provide online education 24 hours a day, seven days a week to any school-agestudent who need spre-curriculum or remedialteaching, or Hisstomachislow, has schedulingconflicts at hisregular school, has limited studyskills in English or is homeschooled.

The targetlearners are :

Anyschool-age student whomay have one of the followingneeds :

- Advanced lessons on the curriculum or remediallessons.
- Homeschooled.
- His rate islow.
- He has schedulingconflicts in hisregularschool setting.
- He needsprivatetutoring. (Al-Ahmari, 2019, pp. 320-321)

5-Future International Secondary School :

Established by Dr. Karben Bishop, Future High School in 1984 in Southern California as an alternative to a traditional high school, the School of the Future program isbased on the concept of one-to-one teaching in a caringlearnin genvironment.

Student sreceive live one-to-one online tutoringusingvideo conferen ing technology. The secure online course management system allows student, parent or teacher participation by enablingthem to accessassignments, grades, and progress reports for all the Stakeholder. Because one-to-one instruction, assignmentsreflect the learning style. And the personal needs of eachstudent, and with the keen and encouraging efforts of the faculty, Al-Mustaqbal International Secondary School has remained based on the same educational style or curriculum, and the open enrollment system allowsstudents to starts emester work at any time of the year. (Al-Ahmari, 2019, pp. 321-322).

10-Some of the difficultiesfacing the use of virtual classrooms canbeidentified as follows :

Lack of funding and infrastructure for virtual classrooms : This isrepresented in the lack of budget and equipment, and all the requirements of theseschools, but itcanbeovercome by allocating part of the education budget for it simplementation, and the involvement of community institutions, the privatesector and individuals through their contributions and support for the project .

1- Lack of trainedmanpower : It isrepresented in the lack of technicians, experts and specialistsneeded to implement the virtual classroom project. This can be over come by holding intensive training courses for the necessary man power and sending them on training missions to developedcountries

2- Social illiteracy in society and lack of awareness of e-learning: This requires an intense effort to train and qualify faculty members, teachers and learners in particular, in preparation for this experiment.

3- The linkbetweenthis type of schools and education with other technological factors : such as the efficiency of communication networks, availability of hardware and software, and the extent of the ability to design and produceeducational content in a distinguishedmanner. Design and production skills.

4- Lack of understanding of the new role of the teacher in light of e-learning, which requires clarification of the new roles of the teacher and the publication of awareness campaigns on the effectiveness of the teacher and his positive role in the use of modern technology.

5- Information security : This requires a securi typolicy in order to protect the databases of virtualeducation sites fromvarious intrusions.

Al-Tuwaijial soaddssomedifficulties, including :

• Electricityoutages for long hours at unknown times and poor internet speed in most areas.

• Reliance on computers and the Internet, and thisrequires the availability of an infrastructure, whichmay not beavailable in developing countries. (Al-Manqoush, Mansour 2018, p. 185, 186).

Conclusion:

Based on the fore going, we can say that the virtual school was one of the most effective way sadopted by the countries of the world in ensuring the continuity of the educational process and as an attempt to save the school year in light of the health crisis and the Corona or Covid 19 pandemic, which resulted in the suspension and complete closure of studies in educational institutions in the countries of the world.

Virtual schools are expressed with electronic platforms and virtual environments through which interaction between the teacher and the learner takes place electroni cally, in light of a number of requirements, perhaps the most important of which is the availability of the Internet, computers and technological media for bothsides of the educational process, and the qualification of each of them to deal with digital education, and the provision of all mechanisms for the virtual teacher. Which helps the learner to absorb the lesson in the new virtual environment, with the need to provide a family environment and a social culture that supports this type of education.

Wealso point out that despite the importance of these schools and the success of their applications in addressing crises by the developed countries of the world, many developing countries or those on the path of growth, including Algeria, have been unable to embody this project. This is due to a set of difficulties facingmany sectors that are not Onlye ducation and education, perhaps the most important of whichis the lack of infrastructure and equipment for the success of this type of school, and the lack of support from state institutions, civil society institutions and the private sector, in addition to the lack of qualified and trained humanresources in terms of technology and technology, given that this resource an essential element for the success of The application of theseschools,Add to this the absence of social awareness and the family environment that supports and incubates this type of education, and the problem srelated to electricity cuts and poor internet flow....etc. All of this makesit difficult to implement this type of school.

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