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E. learning a mechanism to ensure quality in higher education

- The Algerian experience as a model -

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Abstract

The information and communication technology is considered as one of the most important and fundamental requirements to keep up with the international changes and innovations. Therefore, the Algerian university works hard to improve its image among other

universities through innovating new educational methods and merging different modern technologies by following what is known as "E. learning". Furthermore, educational institutions

today should adopt E. learning as an important and effective tool in the process of education and

the one-off shifting from traditional education that depends on memorization to E. learning that

depends on internet. In addition to that, the Algerian experience in the use of E. learning

technology is still in the beginning, walking at a modest pace, which is not enough because it needs

to provide some capacities and to realize some conditions, such as the technological, cultural and

pedagogical environment.

The present study aims to highlight this new kind of education, starting from exposing a definition for E. learning and the advantages of this kind of education, in addition to its types, passing by the E. learning styles and requirements, arriving to the challenges that obstruct its

application.

Key words: E. learning, Technology Distance, learning, Quality, Higher education.

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ملخص

تعتبر تكنولوجيا المعلومات والاتصال من أهم المتطلبات الأساسية لمواكبة التغيرات والمستحدثات العالمية، والجامعة الجزائرية تسعى

جاهدة على تحسين صورتما أمام الجامعات الأخرى ولا يكون ذلك إلا من خلال استحداث طرق تعليم جديدة ودمج مختلف

التكنولوجيات الحديثة، وذلك باتباع ما يعرف بالتعليم الإليكتروني. لقد أصبح لزاما على المؤسسات التعليمية تبني التعليم الإليكتروني

كأداة هامة وفعالة في عملية التعليم والتحول من التعليم التقليدي المعتمد على التلقين الى التعليم الإليكتروبي المعتمد على الإنترنت.

وتجربة الجزائر في استخدام تكنولوجيا التعليم الإليكتروني لازال في بدايته ويسير بخطة محتشمة وليس بالقدر الكافي، فهو يحتاج الى توفير

بعض الإمكانيات وتحقيق بعض الشروط كالبيئة التكنولوجية والثقافية والبيداغوجية.

إن الهدف من هذه الدراسة هو إلقاء الضوء على هذا النمط الجديد من التعليم بدءا بعرض تعريف للتعليم الإليكتروني ومزايا هذا

النمط من التعليم وأنواعه ومرورا بأساليب ومتطلبات التعليم الإليكتروني ووصولا الى التحديات التي تعيق تطبيقه.

كلمات الافتتاحية: التعليم الإليكتروني، التكنولوجيا، التعليم عن بعد، الجودة، التعليم العالى

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Introduction

The most fundamental reason that lies behind the progress of nations is the interest they show for

the educational system as a priority in the process of building an equipollent community.

Therefore, education is considered as the vital sector on which any country depends as an indicator

that measures the communities' development, and for that reason, most nations try to rise the

individuals' educational level.

Besides, higher education is considered as a corner stone in the development of any nation,

considering the university as a platform of science and civilization. In order to raise the university

and achieve its objectives, it must follow modern developments in the field of information and

communication technology being a fundamental pillar in the individual's building cognitively and

culturally. Furthermore, the application of E. learning became an obligation and a necessity, as the

traditional education system was incapable of keeping up with successive developments in the

field of modern technology and did not respond to the employment market with all the modern

competencies and accurate skills that it requires.

Adopting E. learning depends on finding the foundations and elements that make us able to

establish this concept, including finding and providing the electronic lecture through the

elaboration of educational materials that depend on programs and computers, in addition to

providing electronic educational lectures via the university's website and finding an integrated

system to manage E. learning through internet techniques.

If you take a deep look at the Algerian university reality, you will realize that E. learning realization

is still somehow slow in view of the difficulties and obstacles that face it. In order to apply and

propagate this kind of education, the ministry of higher education and scientific research should

provide its essentials and requirements, including legislations, means and a special administration

by the logistic university bodies, in addition to providing the base structures and infrastructures,

including computers and networks, and elaborating electronic curricula and legal legislations.

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Besides, the university administrations, teaching body and students should be convinced and

excited to adopt E. learning.

This article aims to clarify the importance of E. learning application, its benefits for individuals

and communities as well as the difficulties that faced university institutions when applying this

education. From that point, we can define our research problematic through the analysis of the

following question: what is E. learning reality in the university and what are the most important

challenges that face its application?

In order to recognize the different aspects of the subject and to reply on the problematic in question,

we divided our research into two topics: the first topic will be devoted to study the fundamental

concepts concerning E. learning. In the second topic, we will study the requirements of E. learning

activation and its application obstacles in the Algerian university.

First topic: Fundamental concepts concerning E. learning

E. learning and its strategies are considered as the most modern orientations adopted by many

nations because of their numerous advantages and benefits, in addition to their effect on all life

fields. Furthermore, E. learning is a reliable technique that we can benefit from, especially students

in universities and people working in the fields of research and scientific studies. In order to study

the subject, we must define it and set its types and advantages.

1. Definition of E. learning:

Researchers disagreed about setting a particular and unified definition for E. learning terms, and

for that reason, we find many definitions, including the following:

E. learning was terminologically defined as: "An educational system that offers educational

programs for learners or trainers anytime and anywhere using the information and communication

interactive techniques, like internet, in order to provide an educational environment with numerous

resources in a synchronous way in the semester or an asynchronous distance way, with no

commitment to a defined place depending on self-education between the teacher and the learner"

(Al-Khafadjy, 2012, p11).

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E. learning was also defined as: "That type of learning that employs electronic media to realize

educational objectives and deliver the educational content to learners, with no consideration to

time and space barriers, and these media are: modern electronic devices, such as computers and

receivers, including satellites, or through computer webs represented by internet, in addition to all

the other media that they provide, like educational websites and electronic libraries" (Al-Halfaoui,

2006, p26).

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> Others also define it as: "The education that does not depend on the presence of the teacher

and learner together inside a classroom, with the presence of an interactivity between them that

eliminates space, not time" (Radjia, 2011, p. 107).

It was also defined as: "A system that allows the possibility of transporting and delivering

the scientific material via numerous tools without a need for the student to attend regularly to

classrooms, because he is the one responsible for teaching himself" (Charmane, 2013, p. 111).

Out of the total previous definitions, we can present an overall definition for E. learning as an

educational modern system that offers the scientific material or the educational programs using

modern communication mechanisms, like computers with their webs and numerous media

including voice, image, drawings, research mechanisms, electronic libraries and internet portals

that are capable of offering scientific lectures and delivering information to the learner in the

shortest time and with the least effort and biggest benefit.

2. The most important features of E. learning:

E. learning has many advantages that make it an effective tool in developing education and

increasing its competence. Among these advantages, we mention the following:

E. learning increases the student's capacity to express his opinion freely and boldly with

no fear or embarrassment because of the social communication services that it provides, such as

e-mails, chatting rooms and interactive videos.

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E. learning facilitates the process of reaching database and searching in them, which contributes to saving time that can be invested to acquire a new knowledge (Ahmed Salem, 2004, p. 293).

- E. learning decreases the learning's traditional needs and requirements and helps solving the problem of classrooms' crowding and tightness (Radjaa, 2012, p. 355).
- E. learning enhances the process of learning and self-reliance, so it does not work only for the student's benefit, but also the university, because the existence of a distance-learning platform contributes to improving the higher education institution website ranking (Chikha, 2017, p.p 77-94).
- The student can learn in an individual way according to his personal abilities and in the time and space that suite him, which helps him depend on himself and bear responsibility, because he is now capable of getting information without any teacher. The student also can set a partnership with a teaching body member and other students through visible chatting rooms that allow him to see the teaching body member and have a conversation with him (Hatim &Ikhlasse, 2008, p 65).
- E. learning decreases the teacher's administrative charges and his work volume in the faculty, and it provides curricula all day long and during the whole week (Zeineb &Ammar, 2015, p. 200).
- E. learning facilitates the operation of storing and restoring information, and the one of improving the collaboration level as well as the participation in the educational process. It also offers supporting services in the educational process, such as early registration and the systems of tests and evaluation (Farouk, 2012, p88).
- E. learning decreases the programs' administrative charges through the exploitation of electronic tools in the information deliverance and the use of different varied tools that are more accurate in the process of evaluation (Tahar and Bouamama, 2009,p. 466).
- The multitude of knowledge resources through communication with different websites or electronic libraries, as it is possible to expose a huge amount of information via websites or electronic memory or database (Ayadhe and Aissani, 2018, p. 199-206).

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E. learning contributes to developing the thinking as well as to enriching the learning

process, in addition to the possibility of continuing to reach curricula and educational materials,

because E. learning supports the self-education and the lifelong education principle (Hawamda,

2011).

3. E. learning types:

According to the researchers interested in studying E. learning, this latter has numerous types with

different definitions from the environment's point of view where each type is applied. We mention

here the most important types:

Synchronous E. learning:

It represents the type of learning where both the student and the teacher are in front of electronic

screens at the same time so that they can discuss directly in order to deliver and exchange lessons

and research topics. This type of learning has many positives, such as decreasing costs and

dispensing with going to the study location, and one of its negatives is that it needs to train teachers

and students to use technology techniques and that it also needs modern devices and a good

communication network (Ghazi, 2012, p 85).

- Asynchronous E. learning:

It is the E. learning that does not require the presence of both the student and the teacher in front

of screens at the same time, as it operates through benefiting from previous experiences or via the

availability of the educational material on CDs, because the learner is capable of interacting with

the educational content via emails, such as sending a message to the teacher in order to understand

something, then this latter shall answer him. One of the positive points of this type is that the

learner gets lectures according to the times that suit him and the effort that he wants to offer.

Furthermore, the student can restudy the lecture and get back to it electronically whenever he

needed to do that. One of its negative points is that the learner cannot obtain the scientific material

immediately from the teacher, and that it can lead to introversion as it is operated in isolation

(Amel Hocine, 2013, p128).

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- Merged learning:

It includes a set of media that has been designed to complete each other, and the merged learning

program can include many learning tools, such as immediate virtual learning programs, certified

lectures on the internet and self-education lectures. Besides, merged learning mixes numerous

events that include learning in traditional semesters where the teacher meets the students face to

face, and self-education is mixed with synchronous learning and asynchronous learning (Mouna

Hadi, 2013).

Second topic: The requirements of E. learning activation and the obstacles of its application

in the Algerian university

In order to succeed E. learning in the Algerian university, it needs necessary requirements and

conditions to realize the aims it bears in mind. In addition, some obstacles and challenges block

the E. learning extension and propagation in the Algerian university, and they represent, at the

same time, the fundamental pillars on which E. learning success depends.

1. E. learning requirements:

E. learning requires concerted elements as well as material and immaterial requirements because

it does not represent only the process of transporting information from a paper environment to an

electronic one, but it also requires a set of requirements, which are as follows: (Mechri, 2014.

p143)

E. learning needs a technological infrastructure represented in an electronic linking web

that binds the university with the E. learning topic and the structuring on which the web is based

and which defines electronic linking and computer devices that are used to communicate, in

addition to the programs that facilitate dealing with educational content. Therefore, the necessary

investments must be monitored in order to develop the infrastructure, the skills and the individual

initiative projects.

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The availability of a specialized and elaborated crew to set the E. learning policies in the

institution considering this institution's policy and objectives.

Both the teacher and the learner must have the necessary competence to deal with

electronic devices and internet techniques, because illiteracy is not known today as the person's

ignorance of reading and writing rules, but it means the impossibility of dealing with technological

tools (Meriki, 2019, p44).

Training the student to transfer from the mere reception tool to an effective element while

conversing with the scientific material and forming his personality through showing his opinion

and dialoguing with others, in addition to the capacity of searching and writing reports and

memoranda, as well as participating in searching activities (Amel Hocine, 2013, p75).

The teaching body members must keep up with scientific and technical changes concerning

performance in the university, in addition to employing modern tools in the teaching process and

designing the digital program so that it aligns with the learners' characteristics and the available

capabilities (Meriki, 2019, p40).

The adopted methodology in teaching must be revised and developed, and its scientific

content must be altered so that it suits the scientific developments.

2. The E. learning employment challenges:

There are many technical, administrative and human challenges and obstacles that face the

employment and propagation of E. learning in universities. These challenges can be summarized

in the following points:

The lack of information security, which is one of the most important obstacles that obstruct

the educational process for fear of hacking the information system and losing privacy, therefore,

the educational programs online must be preserved from being lost or stolen or copied to other

websites, or modified or attributed to persons other than the original authors (Talaat, 2019, p57).

Hacking the educational programs due to the non-application of intellectual property rights

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while elaborating learning programs. Therefore, the E. learning intellectual property rights must

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be reliable either during publication or during writing educational materials through E. learning websites (Abdessadek, 2011, p17).

- The digital structure fragility in some areas that suffer from the lack of capacities concerning providing internet web services, and even when these services exist, they are exposed to frequent interruptions because of the lack of a high streaming speed, which is considered as the weakest in the world according to the last statistics (Zeid, 2012, p3).
- The limited capacity of educational institutions concerning creating wide networks and providing a huge quantity of devices and materials, while ensuring their update in view of the technologies' continuous and renewed developments.
- The high cost of digital learning as well as intelligent environments' programs and techniques, which necessarily leads to a high ratio of learning discontinuation, and even when those devices are available, they require continuous maintenance and renewing, which is not available to everyone (Talaat, 2019, p52).
- The need for human resources that are competent and trained in the field of E. learning quality.
- The incapacity of some students to afford the necessary electronic devices for E. learning, such as computers and internet network, for material reasons.
- The continuous need for training and supporting learners and administrators in all levels according to the techniques renewing, because the lack of teachers training concerning E. learning is considered as the principal reason that keeps them away from using this type of learning, which is due to the lack of training courses that help dealing with electronic devices concerning their operation and maintenance method (Al-Aidy & Boufateh, 2018, p667)
- The lack of collaboration between universities concerning exchanging experiences to develop E. learning.
- The universities' websites weakness and the problem of not updating them permanently and not organizing them due to the lack of specialized persons in this field (Filaly & Bouaroudje, 2019, p66).

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The E. learning high costs that include: the cost of devices, equipment and programs as well as the cost of electronic communications' execution between educational institutions, experts and students in their learning spaces, in addition to the fact that training the teaching body members to use computer and internet needs a huge cost (Mechri, 2014, p140).

The weakness of strategic planning and the lack of clear and defined policies in the field of E. learning.

Although there are many challenges, there is still some hope that lies in benefiting from E. learning so that the university reaches its purposes to develop its community.

3. The Algerian experience in the field of E. learning

The E. learning topic in the Algerian university is considered as one of the topics that have a great importance, especially in the present time, not only because it represents a modern learning pattern, but also because it is a new project in Algeria that inters within the electronic government project. Thence, we find that the ministry of higher education and scientific research is heading toward the Algerian university digitization, therefore, when we refer to the executive decree n° 13-77 dated on January 30th, 2013 that defines the minister of higher education and scientific research permissions, we find that it states in its third article that: "He is charged, in the limit of his permissions, to study the necessary measures for the organization of the different higher education phases and developing them, especially watching the development of the information and communication technologies' use concerning management and education and promoting these technologies. In this regard, the ministry of higher education and scientific research issued the decision n° 201 on April 09th, 2011 that includes the creation of the national E. learning committee (decision, 2011). Furthermore, E. learning represents one of the Algerian nation priorities through releasing the E. learning national project in the university. This project concerns merging new training and learning methods as it aims to achieve objectives according to three steps:

- The first step concerns using technology, such as visual lectures, while improving the training and learning level on a short term.

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- The second step depends on modern pedagogical technologies, which means E. learning, in order to ensure quality in a medium term.

- The third step is the one of integration through which distance-learning is approved and published (Al-Wafi& Djeddi, 2018, p67).

The adoption of E. learning style by the Algerian university is capable of providing new communication channels with the higher education services receiver, represented especially in the student who will be capable of ensuring communication with teachers and continuous learning about lectures, which can rise the dynamism of promoting the relationship between teachers and students according to what serves the university's purposes.

Boumerdes University has adopted E. learning via E. learning platforms "Moodle", which are considered as distance training platforms based on web technology that represents the spaces where works are exposed in addition to all the activities and programs that concern E. learning. In application of this, the university has opened, through this platform, an account for teachers in the website page to allow them to upload lessons so that the students will be capable of learning about them. Besides, a teachers and students' guide was set showing the E. learning platform employment mechanism as well as the page classification according to each specialty (Titila and Boualia, 2018, p65).

The "Moodle" platform is considered as one of the best free and open source systems of education management, which means that the software source instructions and the platform interface design can be modified. Furthermore, E. learning in the "Moodle" learning platform is characterized with flexibility, which means training learners in isolation from time and space, in addition to offering the asynchronous learning in particular, which does not require from learners to be in front of screens at the same time, reducing the problem of some students' absence. The "Moodle" environment also facilitates the evaluation process through different patterns of questions, and it permits to download and upload homework in the form of different types of documents and files.

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Conclusion:

The process of adopting E. learning requires a huge deal of work and effort; therefore, we have to

benefit from the experiences of the scientifically developed nations that preceded us in this field.

Besides, the E. learning application requires providing the necessary support, either through

material resources, or legislative texts that ensure the best and continuous exploitation of this

strategic project as well as opening the investment and competition field for public and private

companies in order to provide the best quality of communication and information networks over

the whole national territory.

In addition to that, and after applying E. learning in universities, traditional universities may

disappear and be replaced with a set of institutions that offer programs via communication

channels and systems far from traditional study amphitheaters. However, and although the E.

learning importance, it cannot be an alternative of traditional learning, but it can complement it

and complete its role, so, we can use the tools it offers to improve the learning process in the

traditional environment.

Recommendations:

Securing the E. learning requirements, either equipment or software or rehabilitation or

training, in addition to services and maintenance.

Speeding up the E. learning propagation in the higher education institutions and rising its

efficiency.

Creating an independent administration specialized in E. learning in universities and in the

ministry of higher education in order to follow its application process.

Activating the legal responsibility to protect the intellectual property rights in order to

encourage the teachers to publish their lectures on the E. learning platforms.

Taking the necessary preventive measures in order to avoid possible technical errors in the

internet network.

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- Organizing training courses for teachers and students to help them use the information and communication technology tools as well as educational software.
- Encouraging the private sector to invest in creating national institutions for computers industry and necessary programs production, in addition to making partnerships with foreign companies in order to benefit from the international technology.

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