

# The importance of modern technology in teaching the Arabic language

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**Abstract---**The current era is witnessing technological developments that have imposed themselves on all areas of life, including education. Its objectives, methods, and approaches have changed, and new terms and labels have emerged for modern learning methods: e-learning, distance learning, and digital learning. All of these methods explore the use of digital technology in the teaching and learning process. Digital learning can be considered a new teaching method that delivers educational content and conveys skills and concepts to learners through information and communication technologies and their various media, enabling learners to actively interact with the content and the teacher. Therefore, one of the objectives of this chapter is to introduce digital technology, the most important modern means and media in education, and their importance in promoting Arabic language teaching.

**Keywords---**Technology; education; technological media; educational; Arabic language

## 1. Introduction:

The current era is witnessing a technological development that has imposed itself on all spheres of life, including the field of education, as its goals, methods and methods have changed and new terms and labels have appeared for modern learning methods: e-learning, distance learning and digital learning, all of which are looking at the use of digital technology in the process of teaching and learning.

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### How to Cite:

Benchehda, K., Bouhraoua, H., Zohra, Z., & Djamil, B. (2025). The importance of modern technology in teaching the Arabic language. *The International Tax Journal*, 52(6), 4790–4798. Retrieved from <https://internationaltaxjournal.online/index.php/itj/article/view/456>

The International tax journal ISSN: 0097-7314 E-ISSN: 3066-2370 © 2025

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Submitted: 14 Jan 2025 | Revised: 09 March 2025 | Accepted: 10 April 2025

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Digital learning can be considered a new method of education that provides educational content, and the delivery of skills and concepts to the learner through information and communication technologies and their multiple media in a way that allows the learner to actively interact with the content and the teacher, therefore, one of the objectives of this chapter is to introduce digital technology, the most important modern means and media in education, and its importance in promoting the teaching of the Arabic language.

## 2. The concept of digital technology:

Both "Amal Sweidan" and "Manal Mubariz" believe: "the technology that uses pulses represented by bits in a digital way, i.e. without attention to the physical medium, where they can be transferred and handled without the need to put them on paper, and the bit is the smallest unit to represent digital data and the value is taken one or zero value and information, images and sounds can be represented by a large number of bits, and can be stored on multiple media, such as: computer magnetic disks or CDs ..."

Digital technology is the technology that reduces information in the form of numbers stored in a computer, and can be used at any time and place.

## 3. Characteristics of digital technology:

\*\*\* The most important characteristics that distinguish digital technology can be summarized as follows:

1. **Speed:** technology provides real-time information in the form of letters, images or sounds that are exchanged very quickly through fractions of a second to the whole world and between several communicators.
2. **Smallness:** it is an important feature in the field of information technology, such as the development of electronic computers, which have evolved from very large devices when they appeared to handheld nowadays, even portable in a pocket, and examples of this are many and varied.
3. **Costs:** the cost in the low cost of purchase is easy to spread, as it has become affordable for the majority of communities.
4. **Downsizing:** where all places have become electronically contiguous.
5. **Multi-channel:** ICT uses three channels: the writing channel, which includes writing in all its forms, whether it is a research, an article... The image, which includes moving and static images, icons, etc...
6. **Interactivity:** it makes the user a sender and a receiver at the same time, which creates a kind of interaction between the various participants in the communication process, and thus the communication process becomes a linear two-way process.
7. **Asynchronous:** which means that more than one person can use the same information at the same time<sup>ii</sup>.

## 4. Educational technology

### 4-1- The concept of educational technology:

Mohammed Tawfiq defines education technology as "an integrated process based on the application of a structure of Science and knowledge about human learning and the use of human and non-human learning sources that confirm the learner's activity and individuality with the methodology of the systems method to achieve educational goals and achieve more effective learning".<sup>iii</sup>

Also " also known as educational technologies, a subset of pedagogical technologies, it is an integrated ( complex) process that includes individuals, methods, ideas, tools and organizations that are followed in analyzing problems, devising appropriate solutions to them and implementing, evaluating, managing them in situations where education is purposeful and controllably oriented, and therefore it is the management of components of the educational system and its development"<sup>iv</sup>

It is clear from the previous definitions that technology is an integrated organization that includes both the physical component of machines and equipment and the intellectual component that includes the

cognitive foundations as a systematic educational process that contributes to the preservation of experience and its development for the better .

From the above, we conclude that educational technology is the result of interaction between man and the devices he created in order to simplify and facilitate the process of teaching and learning, and it is the only and appropriate requirement to solve problems related to all aspects of education and its aspects, as it progresses and develops over time and the development of man for himself.

Since each science has its own terms that are distinguished by it, in the field of educational technology, some terms are often used, among these terms we mention:

- **Educational tools (Hardware):** it includes devices, tools, equipment and the necessary equipment such as: electrical circuits and cables that facilitate their operation, and accordingly, the recording device, television, video, computer and others are considered within this term.

- **Educational materials or educational software( Software):** examples include printed and graphic materials, transparencies, computer programs, television, and others that provide information during their presentation through educational tools, and therefore the hardware or computers are called (Hardware) and software is called (Software).

- **Audio Aids :** they are the most available means in human life as a source of learning, for example, audio recordings, radio, seminars, lectures.

- **Visual Aids (Visual Aids ):** it is called visual because it adopts the sense of sight as the main source of learning, reading is a visual learning, watching pictures, paintings, etc.is also a visual learning.

- **Audiovisual aids( Audio-Visual Aids):** they are those means in which the sense of hearing and sight are involved in learning, such as: television, video, talking cinema and others.

- **Cybernetics:** it means the science of the human-machine relationship, which focuses on analyzing the relationship that connects man to machine or man to man in various educational situations.

- **Communication:** it is a process by which an idea or experience is communicated from one person to another, and this process has basic elements: the sender, the receiver, the message, the communication channel and the educational environment. - Sender (Sender: the one who starts the message and the receiver decodes this message"<sup>v</sup>

- **Future (receiverR):** the sender and the receiver are the teacher and the student, with a different share of each in sending and receiving depending on the educational model followed, if it is a traditional model, the teacher's share is more, but in the modern technological model the situation is different.

- **Message (Message ):** it is an educational material that contains a set of facts, concepts and trends formulated with certain symbols and presented in some way.

- **Communication channel :** through which the message is transmitted from the sender to the receiver, and the confrontation can be radio, television, etc.

- **Feedback:** it is a process of continuous measurement and evaluation of the effectiveness of other elements of the communication process and what each element provides to make this process successful.

- **Learning environment:** it is all the conditions and possibilities that surround the communication process and affect it, such as: setting up the place, providing educational means and planning the working method so that the student gets the required educational experience.

- **The exchange of roles between the sender and the receiver (Exchanging roles):** the communication process does not go in one direction, but is a circular process that occurs within a wide field that includes the sender as a sender and receiver at the same time, and the receiver as a receiver and sender as well.

- **Individualized learning:** where attention is focused on the learner as an individual in the educational process, this represents a model of self-education. This attention can be taken by: either a teacher or a learner, a certain educational stage or a specific educational subject is not required for self-education.

The dependence depends or focuses on the method that is used to diversify the effort and activity and intensify it so that the student or learner can learn on his own, as well as self-education leads to helping the learner to develop the spirit of creativity and sound thinking.

- **Learning packages:** a set of different educational activities, but they all serve a specific educational goal . It is a form of individualization of education<sup>vi</sup>.

#### 4.2. Technical progress in the development of Education:

The constant and continuous attention sought by educational and educational institutions and bodies means great attention to the advancement of the educational process to the highest accessible level, relying on modern technological technologies, which were and still are an impressive and fruitful product of the comprehensive modern technological revolution, as it continues to climb constantly and ceaselessly penetrate into the penetration of various fields and contemporary applications."<sup>vii</sup>

The following is a presentation of the most important modern technological means that Western experiments have recognized their usefulness in the educational process :

##### 4.2.1. The computer:

It is generally defined as "an electronic device consisting of a set of separate components that can be directed using special commands or instructions to process and manage data in some way "<sup>viii</sup>, where" it analyzes, displays and transmits information in its various forms and information has various forms, which may be represented in the form of numbers or letters for written or drawn texts, images, sounds or movement, as in films and animated writings. "<sup>ix</sup>

So, the computer is an educational medium and one of the modern technologies adopted in the educational field to facilitate the educational process and give it an interactive sensory aspect, where its tasks are multiple and vary according to the uses of both the teacher and the learner, explaining, analyzing and applying .

One of the advantages of using computer technology in the educational process:

- Create an active learning environment between machine and human.
- Developing students ' skills to achieve educational goals.
- Presentation with sound, images and movement facilitates the student's assimilation better than the traditional method.
- Reduce the percentage of boredom and boredom among students from learning.
- Providing individual learning opportunities among students, and also helps to take into account the individual differences between them.
- It helps to transfer the teaching and learning process to the home for the further acquisition of skills.
- Perform jobs and works faster than the teacher.

##### 4.2.2. Smart or electronic whiteboard:

"It is also called an interactive whiteboard and it is a kind of projector, and it works when connected to a computer and a data projector, and by connecting it it becomes a huge computer screen with high resolution and clarity, it saves all the information, data and graphics and transfers them to students"computers .<sup>x</sup>

It can also be defined as " an active whiteboard with a touch screen, where the teacher touches the whiteboard to control all computer applications, such as linking to an internet page, he can also take notes, draw shapes, clarify ideas and show key information by electronic news besides memorizing and printing ".<sup>xi</sup>

What distinguishes the interactive whiteboard:

- 1-it has a very high degree of clarity and is very responsive and easy to connect to the computer.
- 2- easy to install and operate and do not need an external feeding source .
- 3-it facilitates the preparation process for the teacher or lecturer and there is no need for the listener to record his notes, as everything is saved and printed on the blackboard, which helps to concentrate.

4-flexibility of use, saving effort, easy return to previous points and without fatigue when saving.

#### **4.2.3. Data projector (Datashou projector) :**

"It is an optoelectronic device used to display various educational materials from a computer, video equipment, televisions, from receivers, from video cameras, from documentary camera devices, or from mobile devices ..."<sup>xii</sup>.

One of the features of this device :

- **Wireless connection:** the device can be used anywhere without any obstacle preventing it.
- **Information protection:** it has the possibility of protecting the data recorded on it from copying, capture or other means of information theft.
- The possibility of submitting presentations without relying on a computer .
- **Network control:** which helps making presentations either in offices or during movement.<sup>xiii</sup>

### **5. Educational technology media:**

The most important media on which educational technology depends are the following:

#### **5.1. The internet:**

"Sartawi and Saada" defines it as " a very huge technological network that connects tens of millions of computers around the world through multiple protocols, and through which it works to exchange enormous information in various aspects of life in order to achieve various goals "<sup>xiv</sup>.

Features of the internet:

- Easy access to information and saving the researcher's time ; as it is present on multiple and advanced search engines, including a high and easy ability to search and browse, enabling any researcher to search without the need for help from anyone .
- It allows the researcher the ability to obtain information from different parts of the world, and also allows him to find what he needs from different sources and not rely on books published in a particular country .
- The most important feature of the internet is its ability to update its information.
- Assistance to collaborative group learning, as it provides access to researchers around the world to communicate with scientists, thinkers and specialized researchers and get their opinions and guidance .

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#### **5.2. E-mail address (E-Mail) :**

"E-mail or sometimes called e-mail is a method of writing, Sending and receiving messages via electronic communication systems, the web or private communication networks within companies, institutions or homes" .<sup>xvi</sup> Therefore, e-mail is a means that connects the teacher and the learner, and makes an uninterrupted link between them, whether they are inside or outside the school space .

#### **5.3. Facebook ( Facebook) :**

Facebook is one of the prominent applications in the second generation of the web(web2. 0) the following is a presentation of how to use the Facebook network in education :

- The teacher or learner creates a page for an educational material or topic and invites learners to post and comment.
- Publish the appropriate educational photos and videos of the material, exchange them between learners and those interested, comment on them and discuss what is in them.
- Make friends and relationships with those interested in a particular subject or educational topic from all over the world and exchange information and experiences between them.
- Use it as a means of continuing the relationship between graduates to continue education and self-development in the same specialty.
- Use it as a way to invite learners and others for various educational events.

it can be said that Facebook is a way to connect students, professors and interested people in order to learn and spread interest.

#### **5.4. YouTube( youtube ):**

YouTube is one of the famous and distinguished sites in the field of education, as it provides many videos for students, and teachers can also record some lectures and lessons and publish them on YouTube <sup>xvii</sup>.

So it can be said that YouTube is a site that encourages creativity as it is a platform for students to interact and not just to watch content .

#### **5.5. Electronic educational platforms:**

"It is an integrated multi-source interactive educational software system on the internet to provide courses, educational programs, educational activities, and e-learning resources to learners anytime and anywhere simultaneously and asynchronously using interactive educational, information, and communication technology tools in a way that enables the teacher to evaluate the learner" <sup>xviii</sup>.

#### **6. Modern technological media used in e-learning:**

"Modern technological media in distance education can be divided into electronic media used as sources of information such as: electronic library ( E-Library), electronic books (E - books), audio-graphic charts and electronic media used as communication and learning tools such as: computer-based instruction, video conferencing, the internet, the World Wide Web, virtual classes (video conferencing), the internet (internet), the virtual classroom) for virtual reality viewing" <sup>xix</sup>.

\*\*\* The following is a presentation of some of the technology used in distance learning and its effectiveness:

#### **6.1.Compact discs (CD-Roms) (Compact-Disk):**

It is a digital media that provides a good means of communicating information, namely cylinders with a diameter of 12 cm, consisting of three layers, the lower layer is a layer of hard transparent plastic topped by a layer of silver and reflective aluminum, then a layer of acrylic for protection, and CD-ROM technology has become widespread in storing and displaying information in a variety of formats as one disk holds more than 650 MB of text, graphics, images and audio.

Among its educational uses are the following:

- 1-storing large amounts of educational information at low costs compared to using paper books.
- 2-memorizing educational information from written texts, drawings, images and sounds for a long period of time without affecting its quality from repeated uses compared to other methods of memorization, whether paper or video companies .
- 3-employing it as a method of self-learning to present educational information and educational programs for individual students to use in education " <sup>xx</sup>.

So CDs are modern technological media, which serve to store information for a longer time while maintaining its quality despite its frequent use.

#### **6.2.Electronic periodicals:**

They are publications issued periodically under a well-known and distinctive title, but they are one of the most vessels and sources that should be affected by the shift towards electronic publishing for several reasons that distinguish them from other publications and paper documents, including:

- The novelty of its information compared to books and other types of information sources due to the speed of its issuance and regular periodic communication .
- The diversity of its topics and the multiplicity of its writings, even in the case of periodicals or magazines specializing in a particular topic.

### 6.3.E-book (ookb Electronic) :

An electronic book is any book or booklet printed in general that exists in an electronic digital format and can be distributed electronically via the internet and direct transfer of files or transfer to various storage media, and these electronic books are read on the screens of electronic computers.

### 6.4.Electronic references:

As for the reference sources of information that researchers resort to or consult in order to obtain answers or important and quick information, they are also available electronically, whether on the internet, or in the form of CD-ROMs and multi-purpose disks (Multimedia).<sup>xxi</sup>

These electronic references include the following:

**6.4.1. Encyclopedias or knowledge circles (Encyclopedias):** there are more than (100) electronic encyclopedias, general, multi-thematic or thematically specialized, and the most famous of these encyclopedias is the British encyclopedia (1997) (Britannica), which includes (16) million references, (66) thousand articles, (4200) photographs and collections of maps and charts, as well as it is characterized by the presence of about (500) thousand hypertext links (hypertext link) that guides the reader from text to text or other texts that are interconnected with it .

**6.4.2.Dictionaries and lexicons (Dictionaries):** the number of which has increased from (400) electronic dictionaries such as the dictionary of Marian and Buster, which includes (70) thousand definitions and terms in addition to (100) thousand synonyms and proverbs, and an abbreviated Encyclopedia is added to this dictionary, which includes more than (15) thousand entries and topics .

**6.4.3.Annals and yearbooks (Almanacs and yearbooks):** there are a few computerized databases representing nine types of this type of references updated information annually, such as: the yearbook and facts in the world, known as (World Almanac and Book of Facts ) and includes read and illustrated information.

**6.4.4.Directories:** there are more than 400 directories and professional organizations in different regions of the world, such as the directory of European medical organizations, which includes thousands of medical organizations, their addresses and activities.

**6.4.5.Biographies and translations:** there is more than one electronic database dealing with the subject of well-known personalities in the world or in specific geographical areas and detailed information about a character.

And other types of electronic references such as : population statistics, company data, phone lists, addresses, book indexes, lists of literature or bibliographies<sup>xxii</sup>.

From this we conclude that electronic references are one of the most important and shortest ways to access information, as they are a record of what generations have left us over the ages of human knowledge and intellectual heritage .

## 7. The importance of using digital technology in education:

"Today, digital technology in all its forms and forms promises the bridge to new knowledge, enrichment of the educational process, and the formation of a scientific community capable of bringing positive change in society"<sup>xxiii</sup>.

Digital technology in the educational field is used as a service for the educational process, because of its ability to facilitate the process of obtaining scientific information, and the possibility of referring to it to benefit from it in the development of the educational process, and the use of these modern technologies in the learning process is in most educational situations in support of the theory or depending on the diction or the diction itself.

Digital technology is more adequate and organized than traditional educational media, which is about to lose its importance due to its inability to keep up with the requirements of modernization in educational programs. digital technology is the optimal engine for students ' imaginative abilities, thereby increasing

their ability to compare, extrapolate and analyze. the use of digital technology is not a goal in itself, but to achieve an end, namely solving educational problems and fulfilling learning needs as tools and means to facilitate education.

It also has an interactive ability that allows students to engage and contribute to activities that push them to creativity and participation of others, and also helps them to wind the time.<sup>xxiv</sup>

Therefore, the use of digital technology in education is very important, for the benefit and benefit of both students and teachers, and also contributes to the success of the educational process and achieving the desired goals.

### **8. The goals of using technology in education and its benefits in teaching the Arabic language:**

"Research on educational technology usually has an agenda aimed at increasing the effectiveness of current practice, but more often it is aimed at pedagogical changes.

For example, when we use presentation programs, for example, to explain a lesson, this increases and improves the effectiveness of the current practice in terms of the ability to modify and add to it at any time, unlike, for example, printed copies of textbooks.

If we combine audio or visual media such as videos with this material and have students conduct a discussion among them to analyze the main points and come up with their own opinions on the topic, then here we have achieved multiple educational goals such as stimulating participation, enriching students ' thinking and encouraging critical thinking, to name a few ).<sup>xxv</sup>

The use of technology in teaching the Arabic language has benefits including:

- Making the Arabic language material scientific and accurate.
- Raising students ' activities in learning, because teachers use various means in presenting their materials.
- Assisting students in presenting the information they know.
- Raising the effectiveness of student learning .
- Facilitates students to view the studied materials .
- Facilitates the design of study materials.
- Raising the values of Education.<sup>xxvi</sup>

Through the goals and benefits already mentioned, we come to the conclusion that technology in Arabic language education has facilitated access to knowledge and the acquisition of new skills through dealing with modern educational means.

### **Conclusion**

Through what we have touched upon, we conclude that digital technology has played an important role in the development of the educational process, created an interactive and enthusiastic atmosphere to push the learner to learn more, and worked to enhance his talents and abilities, as well as improve the competencies of teachers, including raising the educational profitability, and therefore modern technologies in teaching the Arabic language are the basis for a foundation-based education Adjusted to achieve the desired general and specific goals for the success of the educational process in its various stages .

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