

---

## Is Algeria able to include E-learning in its schools after the COVID experience.

**FASSEKH WISSEM ;**

University of Algiers 3, Institute of Physics and Sports Education, Algeria ,

[fassekh.wisem@gmail.com](mailto:fassekh.wisem@gmail.com)

---

### ARTICLE INFORMATION

Original Research Paper

Received : 15/01/2023

Accepted : 26/03/2023

Published: 01/06/2023

---

#### Keywords :

E-learning

Schools

COVID

Experience

---

### Abstract

The aim of the reaserch was to assess the role of e-learning ; as a tool of academic studies Whether the organisation is a university, a school or a company, e-learning is a technique that has many advantages for both trainers and learners. Obviously, we d`ont have enough distance as concerns the e-learning efficiency given the very short period of study First, e-learning training is adaptable to needs. for exemple , Virtual classes, lasting up to 2 hours, bring together small groups of online (distance) learners with a trainer. These virtual classes are most often used to punctuate other remote work (start of work, corrections, questions/answers with the trainer, etc.to facilitate the appropriation of content without mobilizing the face-to-face.

---

Corresponding author: Full name,  
e-mail:

[fassekh.wisem@gmail.com](mailto:fassekh.wisem@gmail.com)

---

[doi.org/10.5281/zenodo.15212591](https://doi.org/10.5281/zenodo.15212591)

## 1. Introduction

In a total of 195 countries all over the world, 191 counties were affected by COVID-19 (UNESCO, 2020b). Around 429 universities across the world were shut down and started conducting online classes and e-learning (UNESCO, 2020).

(Wei Bao ,2020) following the government's requirement of "non-stop teaching and learning", most Chinese universities have started online teaching. In a short period of time, millions of professors have started teaching in front of a computer screen, and their students have to stay at home and follow the courses via the Internet. Beyond China, with the spread of COVID-19 around the world, as of 13 March, 61 countries in Africa, Asia, Europe, the Middle East, North America and South America have announced or implemented school and university closures and most universities have implemented localised closures (UNESCO, 2020) .

For decades, scholars, instructors, practitioners, and institutional decision-makers have been interested in hybrid training methods.

E-Learning has advanced significantly as the preferred means of distant education, and we are witnessing a convergence between distance and traditional face-to-face education as a result of movements by traditional education providers. Conventional colleges and institutions throughout the world are pro-actively implementing distant learning technology, not just to reach the unreachable and provide greater openness and access, but also to supplement their present on-campus students. Today's learning and education technology is overwhelmingly what we predict for tomorrow. During that time, the structure of the e-learning technology

application altered by merging new discussion technologies such as M-Learning, T-Learning, and U-Learning<sup>[1]</sup>

E-education or on-line schooling is altering the way we method educating and learning. Instead of “correspondence” guides that started out in England in the mid-nineteenth century and concerned sending of challenging replica files that had been situation to lengthy time delays, e-education helps asynchronous as properly as synchronous schooling shipping methods The blended gaining knowledge of paradigm combines e-learning with regular studying concept and practice, carried out in a flexible, multi-modal and multi-linear redecorate that encourages self-regulation and collaboration. Benchmark Definition: **Chartier, Deschryver, and Peraya (2006)** Web-based schooling is dealing with a paradigm shift amid the fast improvement of records and verbal exchange technologies. New studying paradigms require particular curriculum format techniques, unique educating models, and particular evaluation methods. Blended getting to know is a personalised gaining knowledge of surroundings that consists of digital equipment.

**Adel Benallouche, Samir Bensayah (2022)** , First got here the area of family members with the management with an mathematics suggest of 4. 21 and a relative weight of eighty four. 20 to a totally huge diploma, and that is a end result that suggests a near hyperlink among digital control and its effect on expert overall performance via way of means of distinctive feature of the most important adjustments in reputable establishments in the direction of the adoption of digital control, computing and digitization in all their transactions. -Secondly, the area of medical studies got here with an mathematics suggest of 4.12 and a relative weight of 82. forty to a huge

diploma, because the management of the Institute has cutting-edge traits and plans in mind of the software of digital control to be able to increase the overall performance device in order that it helps the domain names of creativity and innovation amongst professors. THE Authors confirmed that the professors` imaginative and prescient of the software of digital control to expand their expert overall performance turned into to a huge quantity from their factor of view, and that is because of the advent of latest strategies and technology that make contributions to elevating the extent of success in commercial enterprise and decision-making with excessive pleasant and efficiency. There also are no variations withinside the reviews of professors because of the variables of educational degree, expert experience (years of experience), function (administrative, non-administrative) and specialization (idea and technique of bodily and sports activities education, sports activities training, control and athletic control).

## **I-Literature Review**

### **1.1-Blended studying**

The higher education sector needs to upgrade the technological facilities continuously as per the change of the trends. Also, there is a need for financial aid for the transformation from the traditional education system to modern e-learning; the quality of information mapping on the students has become more complex (Darling-Hammond et al., 2020).

Despite the pressured transition to on line studying, there has been a sizeable desire glaring in lots of exploration for a many shape of F2F practise to be continued. This preference took the shape of conventional

classroom- primarily grounded completely practise( Garris & Fleck, 2020; Mouchantaf, 2020; Rizun & Strzelecki, 2020; Tartavulea et al., 2020) and combined studying options( Al- Balas et al., 2020; Alqahtani & Rajkhan, 2020; Kaur et al., 2020; Liu et al., 2020).

Blended studying may be considered as a cold-blooded terrain that mixes the blessings of conventional F2F studying areas at the same time as exploit- in online technology that enhances studying content material and shipping options. A combined studying surroundings can be the exceptional volition for establishments post-COVID to switch- age the instructions discovered from the net carouse in at the same time as keeping the blessings of conventional F2F approaches.( Kaur et al., 2020). This also helps the want for the training zone in order to reply to fortune heads that must they do. Liu et al.( 2020) s Chinese observe at the sustainability of council studying post- COVID reinforces the want to bedeck combined studying structures throughout Asia as a go back to the antique manner of doing matters isn t always desirable. The necessity of keeping an important on line presence for all attendants irrespective of favored shipping mode can not be understated must a fortune surprise incapacitate institutional capacities to offer F2F practise. Blended studying Despite the pressured transition to on line studying, there has been a sizeable desire glaring in lots of exploration for a many shape of F2F practise to be continued.

This pref- erence took the shape of conventional classroom- primarily grounded completely practise ( Garris & Fleck, 2020; Mouchantaf, 2020; Rizun & Strzelecki, 2020; Tartavulea et al., 2020) and combined studying options( Al- Balas et al., 2020; Alqahtani & Rajkhan, 2020; Kaur et al.,

2020; Liu et al., 2020). Blended studying may be considered as a mongrel environment that mixes the blessings of conventional F2F studying areas at the same time as exploiting on line technology that enhance studying content material and shipping options. A combined studying surroundings can be the exceptional volition for establishments post-COVID to switchage the instructions discovered from the net carouse in at the same time as keeping the blessings of conventional F2F approaches.( Kaur et al., 2020). This also helps the want for the training zone in order to reply to fortune heads must they do. Liu et al.( 2020) s Chinese observe at the sustainability of council studying post- COVID reinforces the want to bedeck combined studying structures throughout Asia as a go back to the antique manner of doing matters is not always desirable. The necessity of keeping an important on line presence for all attendants irrespective of favored shipping mode can not be understated must a fortune surprise incapacitate institutional capacities to offer practise. This section describes in detail how the study was conducted, including conceptual and operational definitions of the variables used in the study. A comprehensive description of the methods used enables the reader to evaluate the appropriateness of the methods and the reliability and the validity of the results. It may include participant characteristics, sampling procedures, sample size, measures and research design.

## **2-Which educational technologies were utilised the most?**

(Darren Turnbull, 2021 *and all* ) The maximum typically noted platform became Zoom, covered in 14 papers. YouTube and Moodle had been the

following maximum not unusualplace structures noted in ten papers each. Google-associated software program which include Google classroom (four papers) and Google Docs (2 papers) had been now no longer extensively stated withinside the studies. The cause for this can be the affiliation of the Google brand-call with net generation in widespread as opposed to any unique characteristic which include Zoom for video-conferencing and Moodle for on-line learning.

### **2.1. Advantages of blended learning**

The top 10 statistics on e-learning

- 1-The e-getting to know enterprise has existed for thirteen years now.
- 2. It is anticipated to reach \$374.three billion over the following 4 years.
- 3. The present day network of open and huge on-line publications has already amassed extra than a hundred million members.(statsit.com)
- 4. By 2020, the call for for e-getting to know had grown through 400% and is anticipated to develop further over the following years.(inside highered.com)
- 5. 90% of corporations used e-getting to know software program to supply schooling in 2020.( gminsights.com)
- 6. Since 2000, the e-getting to know marketplace has grown through 900%.(globnews.com)
- 7. 40% of millennials choose e-getting to know strategies to expand extra skills.(
- 8. e-getting to know can assist lessen power intake through 90%.
- 9. More than 80% of on-line pastime includes looking schooling or academic video content.

Is Algeria able to include e-learning in its schools after the COVID experience.

---

-10. Europe and america together account for 70% of the worldwide e-getting to know marketplace.]

## **2.2-Overview of the most important growth statistics in the e-learning sector**

The virtual learning sector has grown considerably by 900% over the past 22 years.

- The global e-learning market is expected to reach over \$243 billion by 2022.

By 2026, the MOOC industry is expected to reach \$374 billion.

- 4. Demand for e-learning software systems and tools increased by nearly 400% during the COVID-19 pandemic.

- The e-learning market is now 22 years old.

## **III-Key statistics on the power of e-learning**

The maximum crucial benefit of e-studying is that it lets in any Internet consumer to examine on-line at their personal tempo and convenience. In addition, it makes a extensive style of content material to be had to all and sundry with an Internet connection. Internet customers can select how they want to have interaction with the content material of the web education thru the verbal exchange channel in their choice. Students can watch instructional and education videos, examine commands thru social media, emails or texts, examine at the move and faucet into any content material they choose to gain their studying goals. The electricity of e-studying and cell is incommensurable.( firstsiteguide.com)



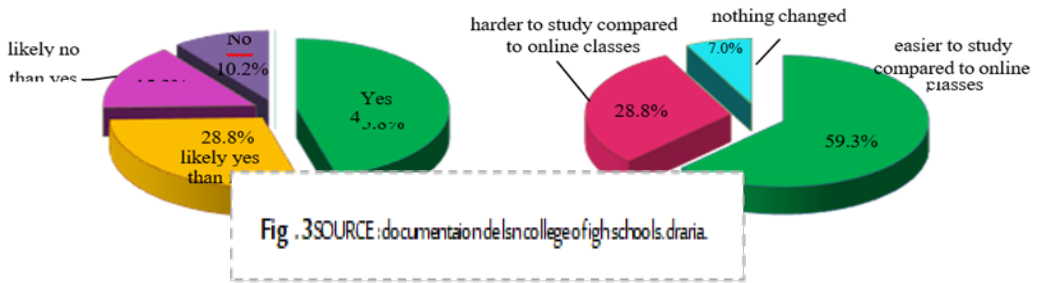
□ **Figures and Table**

Fig. 1 Is a hybrid learning format acceptable for education in the Russian Federation?

Fig. 2. ... hybrid learning format it is for you

a) Is a hybrid learning format acceptable for education in the Russian Federation?

b) In a hybrid learning format it is for you ...



Source : - Elena D. Shimkovich AND ALL PUBLISHED BY JOURNAL OF RUSSIA UNIVERSITY ,2021

**Lycée Sportif National**  
Poste Intervenant : M.L. Kirdache

JOURNAL D'ACCES DES INTERVENANTS

Periode DU 01/09/2010 AU 30/09/2010

Journal détaillé	Journal groupé par nom	Journal groupé par adresse IP		
Nom Prénom A Y	Date début A	Date fin YA	Durée A Y	Adresse IP A Y
Boudoukha Fatma	30/09/2010 17:39:16	30/09/2010 18:14:20	00:15:04	41.107.17.200
Handi Amel	30/09/2010 9:06:37	30/09/2010 9:13:54	00:07:17	41.201.192.103
Handi Amel	29/09/2010 15:39:15	29/09/2010 16:02:39	00:33:24	41.201.256.241
Chefaoui mahdi	29/09/2010 8:34:01	29/09/2010 10:56:36	02:22:35	41.305.194.122
Handi Amel	28/09/2010 13:08:52	28/09/2010 13:48:39	00:39:47	41.201.209.246
Handi Amel	28/09/2010 10:30:19	28/09/2010 12:12:38	01:42:19	41.201.209.246
Kirdache M.L.	28/09/2010 9:05:31	28/09/2010 9:53:42	00:48:11	41.201.238.92
Boudoukha Fatma	27/09/2010 15:44:31	27/09/2010 16:37:18	00:52:47	41.201.218.12
Handi Amel	27/09/2010 15:09:23	27/09/2010 16:20:26	01:11:03	41.201.218.12
Boudoukha Fatma	27/09/2010 12:47:38	27/09/2010 12:56:28	00:08:50	41.201.193.39
Boudoukha Fatma	25/09/2010 22:12:21	25/09/2010 22:28:41	00:16:20	41.201.210.233
Handi Amel	23/09/2010 20:13:05	23/09/2010 20:59:25	00:46:20	41.104.40.239
Handi Amel	23/09/2010 20:53:49	23/09/2010 20:12:31	00:08:42	41.104.40.239
Handi Amel	23/09/2010 19:57:52	23/09/2010 20:04:22	00:06:30	41.201.252.43
Handi Amel	23/09/2010 12:12:26	23/09/2010 13:54:39	01:42:13	41.201.216.233
Handi Amel	22/09/2010 13:32:25	23/09/2010 7:48:38	18:16:13	41.201.237.6
Boudoukha Fatma	21/09/2010 20:37:49	21/09/2010 21:56:42	00:29:02	41.201.204.199
Chefaoui mahdi	21/09/2010 14:12:45	21/09/2010 14:47:10	00:34:25	41.201.235.160
Boudoukha Fatma	21/09/2010 13:09:02	21/09/2010 14:54:20	01:45:18	41.201.235.160
Kirdache M.L.	21/09/2010 13:00:28	21/09/2010 14:36:09	01:35:41	41.201.235.160
Boudinef Reda	21/09/2010 12:52:15	21/09/2010 14:36:35	01:44:20	41.201.235.160
Handi Amel	21/09/2010 12:44:34	21/09/2010 14:12:31	01:27:57	41.201.235.160
Handi Amel	21/09/2010 12:36:39	21/09/2010 12:38:49	00:02:09	41.201.235.160
Kirdache M.L.	21/09/2010 12:07:57	21/09/2010 12:52:00	00:44:03	41.201.235.160
Kirdache M.L.	21/09/2010 11:18:32	21/09/2010 12:07:37	00:49:05	41.201.235.160
Boudoukha Fatma	18/09/2010 23:35:42	19/09/2010 9:42:02	01:06:20	41.201.193.230

Is Algeria able to include e-learning in its schools after the COVID experience.

FIG : control of on line schooling groups (distance open schooling) at sports activities excessive school —fassekh wissem,2016, THE EVALUATION OF TRAINING IN THE LYCEE SPORTIF ON THE ASSIMILATION OF THE STUDENT AND HIS PERFORMANCE IN SPORTS.

**Lycée Sportif National**  
(Plate-forme SAATAR)

**Bienvenue**  
Cette plate-forme permet de gérer l'ensemble des cours et des acteurs de l'enseignement.  
Elle dispose de l'ensemble des fonctionnalités pédagogiques et administratives que l'on peut attendre d'un outil de gestion de formation moderne pour un nombre limité d'apprenants.  
SAATAR existe en version monolingue, bilingue et multilingue.  
Langue /

**Apprenant**  
**Intervenant**  
**Administrateur**

**Gestion**  
• Domaines  
• Niveaux  
• Modules  
• Capacités  
• Plans types  
• Apprenants  
• Groupes  
• Ateliers  
• Interventions

**Divers**  
• Journal Apprenants  
• Journal Intervenant  
• Liens et Outils  
• Configuration  
• Aide  
• Quitter

Cette plate-forme utilise la technologie SERPOLET, elle supporte les standards AICC et SCORM Copyright © 2006 Omnic Tous droits réservés

**Lycée Sportif National**  
Poste Intervenant : M.L. Koudache

**GESTION DES GROUPES** Mode Edit

• Mon bureau virtuel (0 : 12 messages)

ATELIER \*Tous\* TRJ Par non croissant RECHERCHER  OK

**Gestion**  
• Domaines  
• Niveaux  
• Modules  
• Capacités  
• Plans types  
• Apprenants  
• Groupes  
• Ateliers  
• Interventions

**Divers**  
• Journal Apprenants  
• Journal Intervenant  
• Liens et Outils  
• Configuration  
• Aide  
• Quitter

2007-2009 Langues et Littérature  
2008-2009 Langues étrangères  
3 AS SE 2-2008/2009  
3AS langue Etrangère  
3AS Littéraire  
3AS Philosophie  
3AS Sciences Naturelle 1  
3AS SE 1 - 2008/2009  
Elevés 2007/2008  
Groupe Pilote 1L 2009/2010  
Groupe Pilote 2008/2009  
Groupe Pilote 2009/2010  
Groupe Pilote 3AS 2009/2010

**Bienvenue sur la plateforme du Lycée Sportif National**

- Administration de la plateforme
- Configuration technique
- Gestion des droits
- Définition des domaines et des niveaux
- Suivi statistique

**LSN**  
Lycée Sportif National d'Alger

**Bienvenue**  
SAATAR est une solution de Système d'Acquisition et d'Administration des Technologies d'Apprentissage en Réseaux développé par la société A6.  
Cette plateforme permet de mettre en place ...

Langue

**Apprenant**  
**Intervenant**  
**Administrateur**

Cette plate-forme utilise la technologie SERPOLET, elle supporte les standard SCORMAICC - Copyright © A6 MédiaGuide

Source : platform of sports high school drania Algeria.

**FIG : control of on line schooling groups (distance open schooling) at sports activities excessive school —fassekh wissem,2016, THE EVALUATION OF TRAINING IN THE LYCEE SPORTIF ON THE ASSIMILATION OF THE STUDENT AND HIS PERFORMANCE IN SPORTS.**

NOUVEL APPRENANT

Civilité  Monsieur  Madame  Mademoiselle

Nom\*  Prénom\*

Date de naissance (././...)  Lieu de naissance

Adresse 1  Adresse 2

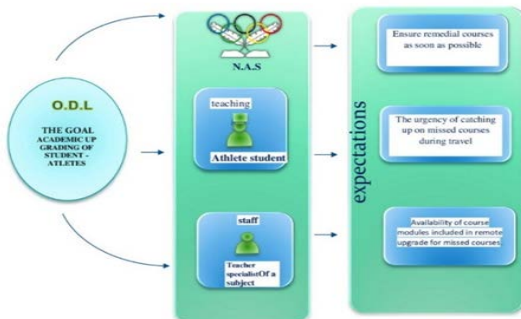
Code postal  Ville

Téléphone  Fax

Courriel  Taille messagerie(0=défaut)en KO

Pseudonyme\*  Mot de passe\*

Open and remote training system at the National Athletic School.



Source : platform of sports high school draria Algeria.

### 3.1--Hybrid Learning in Education

What precisely is hybrid studying and what does it include? What is mixed studying and the way critical is it? What are the variations that exist among hybrid studying and combined studying? You`ll discover the entirety you want to recognise concerning those burning questions as you examine via the relaxation of this article.No doubt, conventional studying gives lots of studying to each college students and instructors; the reality stays that it is now no longer with out its issues. For instance, the studying method does not paintings for each student. Hybrid studying and combined studying are the 2 different studying techniques that deal with this issue.

(Naveen Neelakankan,2021)Blended studying is an method of studying that carries major studying dimensions into its fashion: face-to-face lecture room studying and online (self-paced) studying. As for hybrid studying, it is a studying fashion that permits college students to choose the schooling version that fits their needs. It's quite simple; a hybrid fashion of studying permits a few newbies to wait a category in-person, at the same time as others can be a part of the elegance online, from anywhere.

(Chris Khouri, 2021),You`ll discover the entirety you want to recognise concerning those burning questions as you examine via the relaxation of this article. No doubt, conventional studying gives lots of studying to each college students and instructors; the reality stays that it is now no longer with out its issues. Hybrid studying and combined studying are the 2 different studying techniques that deal with this issue. Blended studying is an method of studying that carries major studying dimensions into its fashion: face-to-face lecture room studying and online (self-paced) studying.

As for hybrid studying, it is a studying fashion that permits college students to choose the schooling version that fits their needs. It`s quite simple; a hybrid fashion of studying permits a few newbies to wait a category in-person, at the same time as others can be a part of the elegance online, from anywhere.

Algeria: The school has a success rate of 60.93% - The sports high school of Draria concilia sport and studies

4-4-The experience of the national sports high school on -E-learning  
The Classes on the National Sports High School in Draria (LNS), Algiers, will resume in some days (the faculty 12 months for former college students is scheduled for September 27, whilst for brand new college students the date is ready for October 4).

This shape is strongly asked through younger sportspeople who wish to "reconcile" schooling and recreation practice. Especially since, till then, the excessive faculty has the recognition of being a bastion of achievement on the baccalauréat. This 12 months, the excessive faculty done a achievement fee of 60.93%. With 39 college students, out of a complete of 64, acquired on the 2009 baccalauréat session, the Lycée sportif de Draria ranks 4th withinside the scores of the wilaya of Algiers and 159th (out of 1,575 lycées) on the country wide level.(al watan newspaper [16].

(Fassekh.wissem.2016 [17], Algeria is also interested in this area, and it attaches paramount importance to the development of educational programmes in the context of reprogramming, reorganization and management methods. It has built a sports high school, which represents a first where we benefit from the same scientific and literary subjects as in other ordinary high schools.

#### **4-Strategy for Sports High School Education**

The predominant goal of those trainings is to make participants of the pilot organization of running shoes who will take rate of the schooling of destiny (open distance training ) actors (tutors, authors, novices...) in addition to the improvement of interactive coaching modules, the Management of the

Is Algeria able to include e-learning in its schools after the COVID experience.

---

platform SAATAR that's presently useful and the management of the Cyber-centre.

The duties of the directors of the cyber centre (pilot organization) are as follows:

- Development of the Cyber Centre LSN process.
- Development of coaching modules in countrywide training subjects
- Organization of catching-up and distance studying support.
- Implementation of the Guide Tutor national sports college., with checking out of cycle factors to control catch-ups
- Training and help of tutors and novices for the right functioning of tutoring.( (Fassekh.wissem.2016 [17],

#### ▪ **Conclusions and recommendations**

During the health crisis, Algerians are using educational and material means to complete school and university grades, media, television and learning funded by mobilis such as altarbia, which is provided free of charge to students. platforms, Moodle colleges and classrooms, training platforms such as Google Meet, Zoom and downloadable courses;

As for the samples of the study of , **Boutkhil Guemide and Dr. Salima Maouche,2020**) the researchers selected randomly the samples which comprised of teachers and students of seven Algerian universities (different

departments). The researchers relied on two questionnaires: students` and teachers` questionnaires. The second section contains basically questions about students` perspectives on online education. The third section contains questions about statements of online learning.and the results is Lecture capture- recording, storing, and distributing videos of classroom lectures

Export of recorded classes to open- structures change media (88%)

Online elegance discussions (40%) ,E-mail to, from, among students (78%)

Homework mission and submission (40%),Online testing (5%) ,Student institution tools (discussions, record change, wikis, blogs, etc.) (46%)

Upload files and make to be had to students (40%) .Link to outside internet pages and multimedia asset management (MAM) system (30%). In relation to the fact whether online learning helped the teaching/ and learning process at their universities, 38% of the teachers interviewed believed that it was ineffective because of lots of technical and organizational problems; such as, Internet broadband connection which was crucial to the success of online courses delivery in the MODDLE platform. Within this context, teachers believed that the most effective online methods used in delivering online courses were audio and video learning materials (37%), video- conferencing (30%), and MOODLE and MOOC electronic systems (18%).

Algeria should consider integrating hybrid mastering into the schooling gadget to assist these kinds of college students and college college students, in colleges to lessen the range of pupils, and to allow higher assimilation and mastering, and to present coaching body of workers higher instructional performance, store a number of time and decrease the price of schooling for

Is Algeria able to include e-learning in its schools after the COVID experience.

---

the state, however the Algerian authorities should entrust this undertaking to experts in coaching era for higher care and education for teachers on instructional platforms. Paying interest to human abilities and supplying the essential technological abilities on the Institute of Science and Techniques of Physical and Sports Activities beneathneath observe with a purpose to make contributions to the transformation in the direction of the utility of digital control entirely.-Dealing with digital control packages as a number one intention and one of the pivotal motives for growing the overall performance of institutes of technological know-how and era of bodily and sports activities activities.

-Providing mechanisms that make sure the embodiment of digital transactions at the extent of the Institute of Science and Techniques of Physical and Sports Activities beneathneath observe, and for this reason push for growing and growing overall performance.

-Holding education publications associated with the mechanisms of making use of digital control on the Institute of Science and Techniques of Physical and Sports Activities, mainly the ones for college students and college members, with a purpose to teach them on the way to use multimedia in teaching.

-Raising the extent of cultural attention of the significance of switching to digital control and the usage of its gear withinside the employee`s each day work.finally ,adopting unique requirements withinside the utility of digital control drawn from corresponding government as a foundation of reference.[2].



▪ **References :**

-[1]- **Alqahtani**, A. Y., & Rajkhan, A. A. (2020). E-Learning critical success factors during the COVID-19 pandemic: A comprehensive analysis of e-learning managerial perspectives. *Education Sciences*, 10(9), 216. <https://doi.org/10.3390/educsci10090216>.

-[2]- **Adel Benallouche** , Samir Bensayah, The Role of applying electronic management in the development of professional performance of the professors of the institutes of science and techniques of physical and sports activities- Souk Ahras Institute as a model.( (december 2022), **Journal of Sport Science Technology and Physical Activities**,ISSN : 1112-4032,eISSN 2543-3776

[3] Development of Ubiquitous Learning Environment Based on Moodle Learning Management System, August 2020International Journal of InteractiveMobile Technologies (iJIM) 14(14):182-204,DOI:10.3991/ijim.v14i14.11775

[4] Learning in Presence and Distance, A Definition of Hybrid Devices Bernadette Charlier, Nathalie Deschryver, Daniel Peraya, In Distances and Knowledge 2006/4 (Vol. 4), pages 469 to 496.

[5] [**Al-Balas**, M., Hasan Ibrahim, A.-B., Jaber, H. M., Obeidat, K., Al-Balas, H., Aborajoo, E. A., Al-Taher, R., & Al-Balas, B. (2020). Distance learning in clinical medical education amid COVID-19 pandemic in Jordan: Current situation, challenges, and perspectives. *BMC Medical Education*, 20, 1–7. <https://doi.org/10.1186/s12909-020-02257-4>

[6]- **Boutkhal Guemide, Dr. Salima Maouche**,Assessment of online learning in Algerian universities during COVID-19, Special Issue for Researches of the 29th International Conference ” Digital E-Learning” between Urge and Necessity” on 11-19 Nov, 2020.

[7] **Chris Khouri** , Understanding Hybrid Learning And How To Use It, March 29, 2021, Sponsored-8- <a href="https://www.allencomm.com">AllenComm</a>.

[8] **Darren Turnbull**,, Ritesh Chugh, Jo Luck, Transitioning to E-Learning during the COVID-19 pandemic:How have Higher Education Institutions

responded to the challenge?, Education and Information Technologies (2021) 26:6401–6419, <https://doi.org/10.1007/s10639-021-10633-w>, Central Queensland University, 16 Bruce Highway, North Rockhampton, QLD 4702, Australia.

[9-] **Elumalai, K. V.**, Sankar, J. P., R, K., John, J. A., Menon, N., Alqahtani, M. S. N., & Abumelha. M. A. (2020). Factors affecting the quality of e-learning during the COVID-19 pandemic from the perspective of higher education students. Journal of Information Technology Education: Research, 19, 731-753. <https://doi.org/10.28945/4628>.

[10-] **Elena D. Shimkovich**, Guzel F. Makhmutova, Darya A. Ivanova, Raisa D. Urunova, Advantages and Disadvantages of Hybrid Learning for International Students , VII International Forum on Teacher Education, Published by Kazan federal university and peer-reviewed under responsibility of IFTE-2021 (VII International Forum on Teacher Education)Russia ,2021.

[1 1] **FASSEKH Wissem**, Doctoral thesis, the evaluation of training in the national college sports on the assimilation of the students and his ,2016, University of Algiers 03, Institute of Physical and Sports Education.

[12]- **Garris, C. P.**, & Fleck, B. (2020). Student evaluations of transitioned-online courses during the COVID- 19 pandemic. Scholarship of Teaching and Learning in Psychology. <https://doi.org/10.1037/stl00 00229>.

[13]- - **Kesavan** Vadakalur Elumalai and all , FACTORS AFFECTING THE QUALITY OF E-LEARNING DURING THE COVID-19 PANDEMIC FROM THE PERSPECTIVE OF HIGHER EDUCATION STUDENTS , journal of information technology education ; research volume 19,2020.

[14]- - **Liu, Y.**, Zhang, Y., Qiao, W., Zhou, L., & Coates, H. (2020). Ensuring the sustainability of university learning: Case study of a leading Chinese university. Sustainability, 12(17), 6929. <https://doi.org/10.3390/su12176929>.

[15]- **Mouchantaf, M.** (2020). The COVID-19 pandemic: Challenges faced and lessons learned regarding distance learning in Lebanese higher education institutions. *Theory and Practice in Language Studies*, 10(10), 1259–1266. <https://doi.org/10.17507/tpls.1010.11>.

[16]- **Naveen Neelakankan,** 2021, , Understanding Hybrid Learning And How To Use It, March 29, 2021, Sponsored-8- <https://www.allencomm.com>

[17]- **Rizun, M., & Strzelecki, A.** (2020). Students' Acceptance of the COVID-19 impact on shifting higher education to distance learning in Poland. *International Journal of Environmental Research and Public Health*, 17(18), 6468. <https://doi.org/10.3390/ijerph17186468>.

[18] **UNESCO.** (2020, Match 13). COVID-19 educational disruption and response. Retrieved from <https://en.unesco.org/themes/education-emergencies/coronavirus-school-closures>.

[19]-[www.statista.com](http://www.statista.com)

-[www.insidehigher.com](http://www.insidehigher.com)

-[www.gminsights.com](http://www.gminsights.com)

-[www.globenewswire.com](http://www.globenewswire.com)

-[www.assets.kpmg.com](http://www.assets.kpmg.com)

-<https://firstsiteguide.com/social-media-stats/>

<https://fr.allafrica.com/stories/200909220585.html>

-[20] -Wei Bao, COVID-19 and online teaching in higher education: A case study of Peking University, 2020. Graduate School of Education, [wileyonlinelibrary.com/journal/hbe2](http://wileyonlinelibrary.com/journal/hbe2), Institute of Education Economy, Peking University, Beijing, China.