

University of Basrah in Collaboration with Tehran University for Medical Sciences Will hold International E-Learning Webinar Thursday, 15th of October 2020 at 12:00 PM(Local Iraqi Time)





E-Learning with the concept of Blended Medical Learning



Center of Excellence for e-Learning in Medical Education

Virtual School - Tehran University of Medical Sciences

e-learning in medical sciences education: Definition and Brief review

Aeen mohammadi MD MPH PhD

Department of e-Learning in Medical Education, Virtual School Tehran University of Medical Sciences

aeen_mohammadi@tums.ac.ir

October 15th , 2020



Background

- > In 19th century: started with new technology, i.e. national rail systems
- It was used in new and large nations: the United States, Canada, Australia, South Africa, and Russia.
- > Then the radio, television, and today the Internet are used.
- Preferred organizational form: dual mode university.





Present trends in DLN

- There exist great differences among regions of the world regarding DLN adoption.
- DLN has existed for about one hundred years in the more developed regions and for one or two generations in the developing regions





Present trends in DLN



Developing countries:

- In the high population countries of the developing world, DLN has offered very significant opportunities for education.
- Lack of infrastructure and professional competence in DLN remain important barriers.



Present trends in DLN

Industrialized countries:

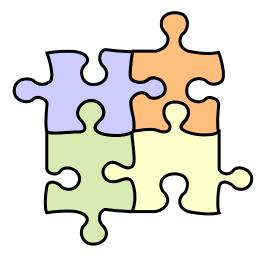
- The need to extend
 - lifelong learning
 - mass education
 - new skills
- > These are challenges that are not easily met by conventional institutions.





TERMINOLOGY

- Open learning
- Distance learning
- Self study
- Flexible learning (flexistudy)
- Learner directed learning
- Independent learning
- Packaged training
- Computer based training
- E-learning





Definition: e-learning?

E-learning refers to the use of Internet technologies to deliver a broad array of solutions that enhance knowledge and performance.



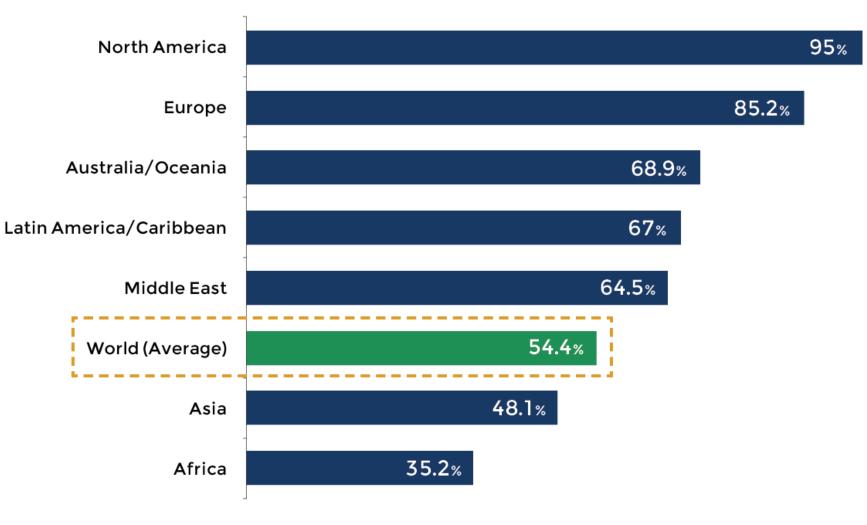




http://blog.schoox.com/elearning-as-corporate-training



Internet Penetration Rates by Geographic Region, December 31, 2017



Source: internetworldstats.com

© 2018 World Education Services wenr.wes.org



Types of e-Learning

Teachers and students may communicate:

- Asynchronously: at times of their own choosing by exchanging printed or electronic media
- Synchronously: through technology that allows them to communicate in real time.



strengths of e-learning

- accessibility to the content
- content enriched with multimedia
- searching and navigation facilities
- discontinuous use of material and resources
- use of interactive activities
- sharing experience and knowledge with the others at a distance
- an organized and facilitated means of gathering data from students

🏽 And ...



weaknesses of e-learning

- lack of personal contact
- limitations for demonstration of clinical procedures and actual practice with machines
- difficulties in adapting, both teacher and student, to new ways of communicating and using new technologies
- having to cope with technological problems during the course
- difficulties in measuring online students' learning outcomes and attendance
- 🧶 And ...





ELEARNING VS LEARNING





Saves money in development, travel, and time



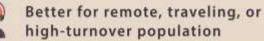
Great for specific, concise topics



Students can take any where, any time



Takes 40-60% less time than classroom instruction





Students can pause, reread, or test out of content



Better use of time for highly-complex information



Great for collaborative topics



Students can ask guestions or role-play situations



Can help students feel more valued



Students learn from each other

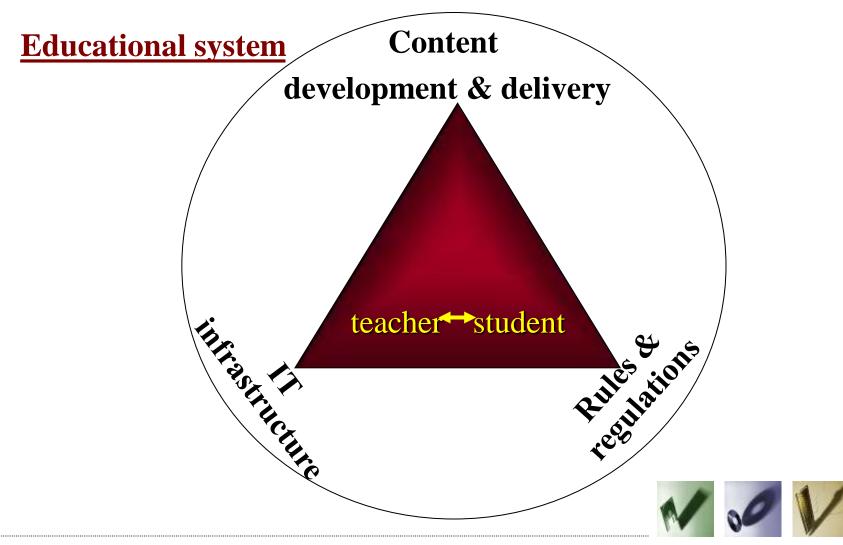


Highly-skilled trainers can adapt information for students

https://www.edgepointlearning.com/blog/Instructor-led-Training-vs-eLearning/



eLearning system



Instructor led Vs Student led eLearning

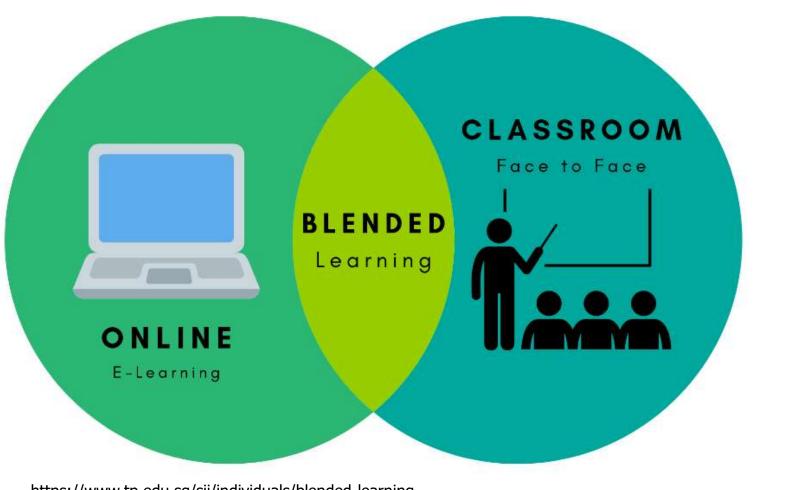
- In a **student-led** class, the **students** are in charge of their **learning**.
- A teacher-**led classroom** is designed around a teacher's needs, they seem quiet and controlled, and teachers take responsibility for what **students** need:
 - **Instructional** approaches are structured, sequenced, and **led** by **teachers**
 - Teachers present academic content to students, such as in a lecture or demonstration.



Blended learning

- A style of education in which students learn via electronic and online media as well as traditional face-to-face teaching.
- Blended learning is an approach to education that combines online educational materials and opportunities for interaction online with traditional place-based classroom methods.
- It requires the physical presence of both teacher and student, with some elements of student control over time, place, path, or pace.





https://www.tp.edu.sg/sii/individuals/blended-learning



BLENDED LEARNING ALLOWS STUDENTS TO WORK AT THEIR OWN PACE & LEVEL



of teachers use **blended learning** in their lessons.

72%

of teachers say blended learning saves them time and energy.

84%

"Many of my students are not proficient in reading, which means I can best teach them math through games on the internet or computer programs rather than difficult word problems."

Daniel F., Math and Science Teacher

Study.com

Source: Study.com Classrooms & Teachers Initiative

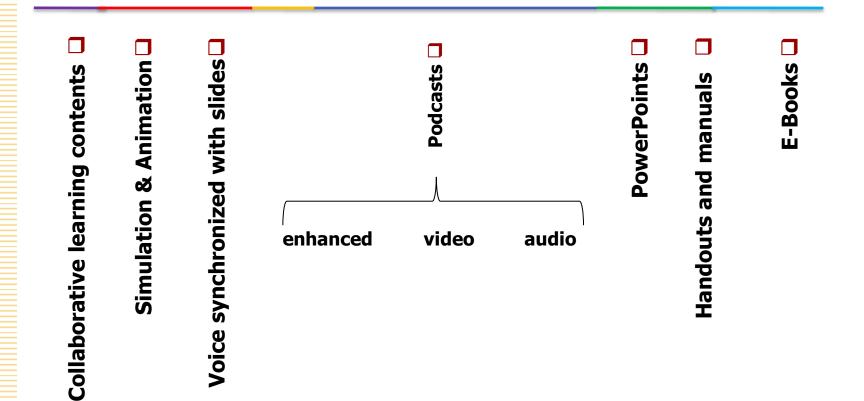
e-Content

- Digital text and images designed for display on web pages.
- E-content development is the heart of teaching learning process.
 Although content development plays a key role in e-learning, it is undoubtedly not an easy process. It requires expert knowledge in the subject area, patience in creating the necessary objects that make up quality and a high sense of creativity in structuring and sequencing the topics to make a complete whole.

Derived from Study.com



e-Content

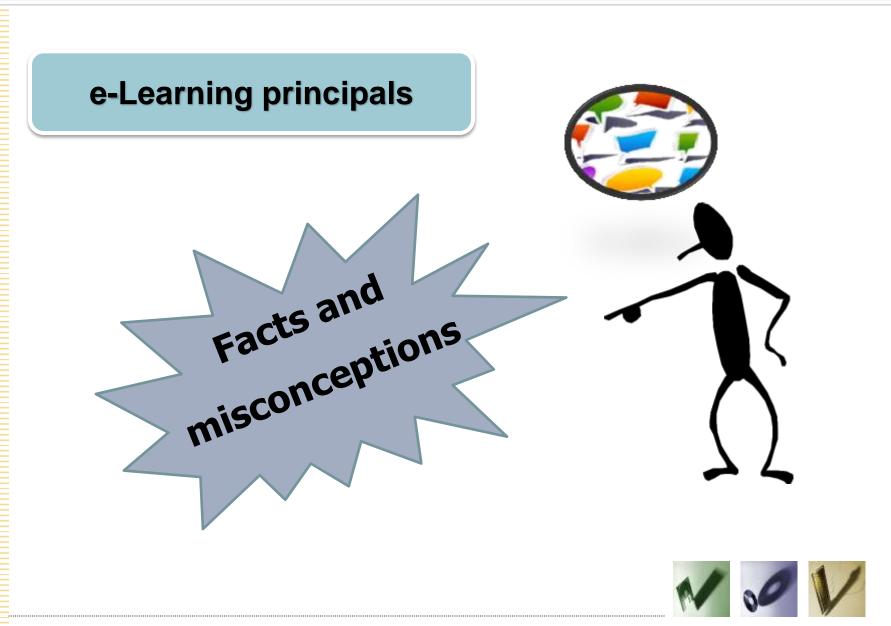




Conclusion summary









e-Learning is not equal to synchronous online learning.

In many cases asynchronous e-learning, e.g. through an LMS works the best.





One should develop multimedia or video contents to be able to deliver an e-course.

e-Learning is not equal to e-content (multimedia, videos or any other types of e-content).

Think of course' objectives & learners' need to choose the best contents.

Aren't reference books or published articles suitable for postgraduate students?





I don't like the university's LMS. I cannot teach well in this platform.

Don't forget that you govern the software!

Make the best out of the accessible technology.





I need to upload files with larger sizes and variety of formats. I need to run synchronous classes and ...

Don't forget that you are the provider!

Students are the users!

What is their idea?

Are they happy with your decisions?





I don't have enough experience. What are the 3 key factors for a good e-teaching?

- Don't overload students with information and tasks!
- Deliver an interactive course!
- Make the best out of blending!





"Blended learning" is combining e-learning and face to face classes.

Blend different contexts and strategies!

Face to face, LMS-based, MOOCs, Zoom, virtual/augmented reality, social networks and face to face sessions for clinical students



References

https://study.com/teach/blended-learning.html

https://www.tp.edu.sg/sii/individuals/blended-learning

https://www.edgepointlearning.com/blog/Instructor-led-Training-vs-eLearning/

http://blog.schoox.com/elearning-as-corporate-training/

https://www.buildthis.io/online-shopping-ecommerce-internet-stats/ (Internet world penetration rates by geographic regions (March 2019).)

http://vums.ac.ir/?page_id=13080

L. EREMIAS, R. SUBASH. E-CONTENT DEVELOPMENT: A MILESTONE IN THE DYNAMIC PROGRESS OF E-LEARNING. IJTER. 2(1): 2013

This presentation is used only for education and non commercial purpose.



