

Online Education and Remote Teaching

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Content

1. Presentation

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- What is online education?
- Different types of online education
- The users for online educations
- Infrastructure needed for online education
- Learning Management systems (LMS)
- Free services by selected LMS systems
- Institutions offering free online education and other learning resources
- Remote delivery of online education
- The acceleration of deploying remote education

2. Practical demonstration

- An of practical application of online education
- Teaching aid such as white board



Introduction

- Education is about learning knowledge and skills which may use:
 - Past information
 - Present and future information transferred from one person to another through teaching, training and research.
- In the past, traditional methods of classroom teaching and training have been used.
- Because of development in technologies, other methods of learning have been introduced. One of those methods is online education or E-learning.



What is online education?

- Distance learning that takes place over the Internet using computers
- Digital learning, learning via computer and internet
- Online learning is learning that is undertaken on a computer by means of internet.
- No physical classroom, flexible schedule and reduced personal interaction
- Students and staff interact over the internet



Different types of E-Learning

- **Online learning**
- **Virtual learning**
- **eLearning**
- **Remote learning**
- **Distance learning**
- **On-demand learning**
- **Mobile online education**
- **Asynchronous Online Courses. Real-time**
- **Synchronous Online Courses**
- **Hybrid Courses**
- **Blended type**



Who use online education used?

- **Educational institutions**
 - Schools, colleges, Universities
- **Corporates**
 - Software and technology
 - Healthcare
 - Retail
 - Manufacturing
 - Governmental and defence
 - Telecom
 - Energy and utilities
 - Transportation
 - Travel and hospitality



Infrastructure needed, Learning Management Systems



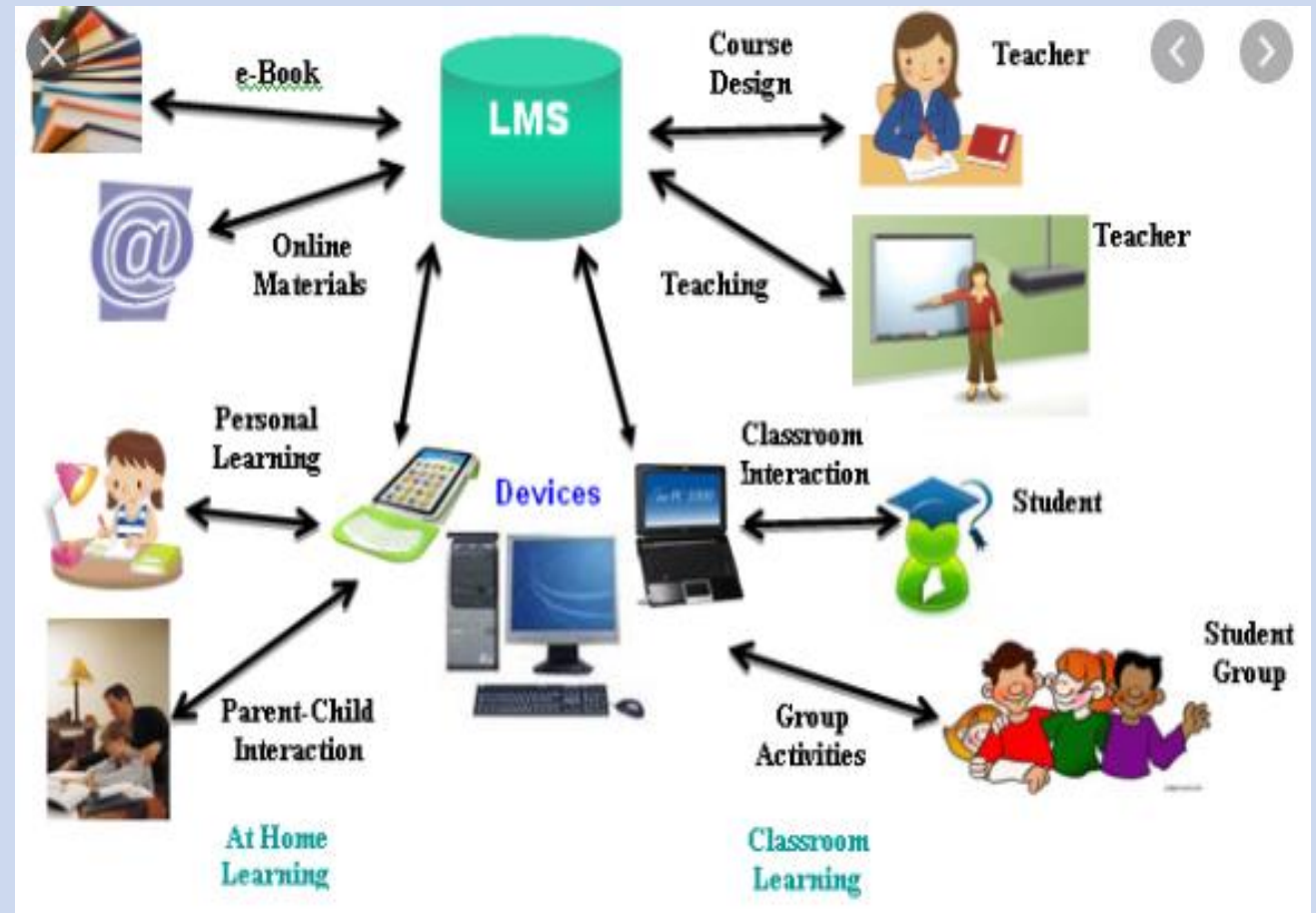
Popular LMS systems

- Blackboard
- Canvas
- Moodle
- Sakai
- Schoology
- Brightspace



Open Source LMS

- Moodle
- Schoology
- Google Classroom
- Chamilo
- Open edX
- Totara Learn



Free Services by some LMS providers

- **Blackboard**
- **Moodle**
- **Schoology**
- **Google Classroom**
- Played with the above platforms and it seems very user friendly and easy to deploy.
- I recommend that colleagues in Afghanistan will use the free version of Blackboard, Schoology, Google classroom or any other LMS which they are comfortable
- MoHE have developed HELMS, I do not any experience



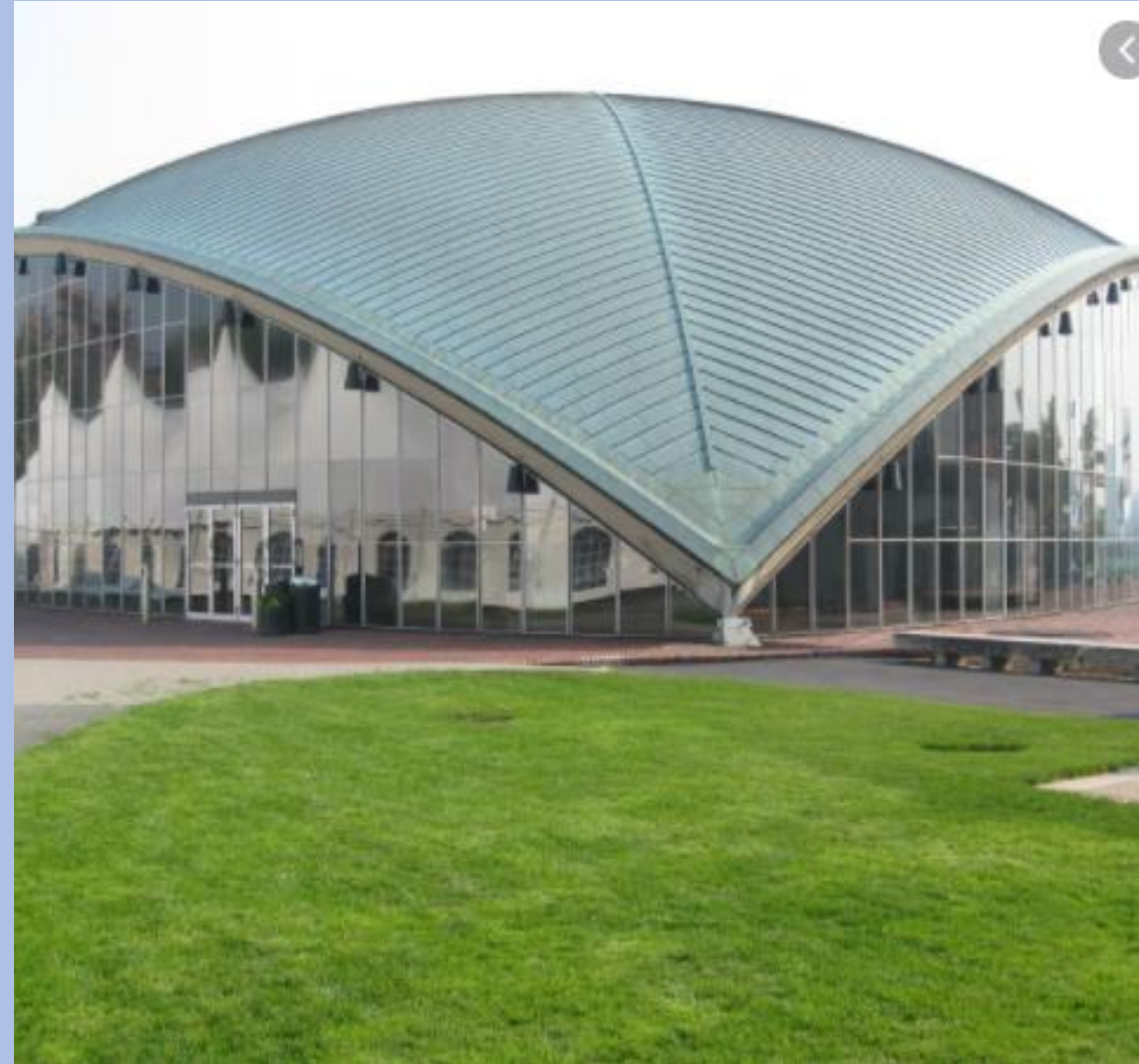
Institutions offering free online education

- **Coursera.com**, <https://www.coursera.org/>
- Several leading universities in the world such as Stanford, University of California at Berkley, Michigan, John Hopkins, and Yale offered free courses published in this link.
- **edX.org**, <https://www.edx.org/>
- Access to more than 2500 courses online courses by 140 universities can be found at this link.
- **Stanford Online**, <https://online.stanford.edu>
- **Khan Academy**, <https://www.khanacademy.org/>
- The mission of Khan Academy is provides free, world class education to anyone in the world. Click on the link!
- **Learnhigher**, <http://www.learnhigher.ac.uk/>
- A lot of useful materials about teaching and learning research and report writing and communication skills can be found in this link.
- **Udemy**, <https://www.udemy.com/courses/free/>



Other useful sources of online educational materials

- **MIT OPenCourseWare**, <https://ocw.mit.edu/index.htm>
- Massachusetts Institute of Technology (MIT) offered, power point slides for more than 200 courses in this link.
- **BIG THINK**, <https://the-big-think.org>
- **ACADEMIC EARTH**, <https://academicearth.org>
- **iTunesU Free Courses**,
- **Code academy**, <https://www.codecademy.com>
- **ict iitk**, <https://ict.iitk.ac.in/online-courses/>
- **NPTEL**, <https://nptel.ac.in>





Massive Open Online Course (MOOC)

- Mooc is a **web-based platform which provides unlimited number of students worldwide with a chance of distance education with the best institutes in the world.**

- **Some top universities in the US**
- **Coursera**
- **edX.**
- **Udacity.**
- **FutureLearn.**
- **NovoEd.**
- **Iiversity.**
- **Canvas.**
- **Open2Study.**

Communication Platforms for remote Teaching and learning

- These LMS systems play a major role in remote learning, where instructor can communicate with students by sharing their computer screen with students who will be far away.
- Communication platforms such as MS-Teams, Zoom, SKYPE for business and other packages can utilised for this purpose.

Blackboard Coursesite.com

- <https://blackboard.coursesites.com>
- Blackboard has two interfaces
 - Ultra, a new one
 - Original, old one
- The lecturers will need it for two purposes at present
 - To create up to five courses and upload the teaching their teaching material
 - To register their students in these courses so that the students access their materials.
 - Blackboard has other features too but it not necessary at present.

The students



- The students will receive an email invitation from their lecturer to register for that course.
- Once the registered, they can access the course materials.
- This is an important part of eLearning.

Remote Teaching

- COVID-19 pandemic has forced nearly all the schools
- colleges and universities in the developed world to abandon normal face-to-face classroom education
- Switched to remote learning where students receive their education electronically using communication tool, networks and Internet.

Delivery of Lectures Remotely

- I have prepared a document which explain the following two important components of remote learning:
- eLearning via Learning Management System (LMS), Blackboard
- How the lectures can be delivered remotely using MS-Teams
- The details has been included in a file which is embedded in the website which I have created in support of higher education in Afghanistan.
- The URL of that website is:
- <http://afghanhe-education.co.uk/wp-content/uploads/2020/06/Electronic-Learning-Remote-Teaching.pdf>

Advantages and disadvantages of online learning

- **Advantages**

- **Education at home**
- **Many free online courses available**
- **Low cost**
- **Flexible time**
- **Access to free online materials**
- **Content of online education is updated easily**
- ***E-learners truly bring what they learn into practice***

- **Disadvantages**

- **Missing the university environment**
- **Lab based subjects will be difficult**
- **Isolation**
- **Face to face discussion with academics**
- **Online education may be difficult**



Summary on online education and remote teaching

- Skills in IT is essential as reading, writing and basic mathematic skills
- IT literate experienced lecturers
- Computers
- Access to relatively fast telephone network
- Internet
- LMS
- Communication tools such as MS Teams, Zoom and etc.
- The market for online education related product and activities is expected to raise to 25 Billions US Dollars in the US by 2025

The End

- Thank you for your attention.
- Any question.

