Faculty Enhancements
In Online Learning
2020-2021

Collage of Applied Medical Sciences
King Saud Bin Abdulaziz University for Health Sciences

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INTRODUCTION

The COVID-19 pandemic is prompting many colleges and universities to abruptly and comprehensively adopt online learning in place of face-to-face classes, in an effort to limit transmission of the virus. Faculty, and support staff are all working to accommodate this massive change.

As considerable numbers of faculty are suddenly required to move their courses to a completely online environment.

Mission and Vision

King Saud Bin Abdulaziz University for Health Science, Collage of Applied Medical Sciences, and Faculty Enhancements Unit mission is to Support academic staff professional development with respect to new approaches to teaching, educational research and community services that generate standard success in all online environments

GOALS

◆ Promoting student engagement.
◆ Encouraging innovative teaching and learning practices that meet the needs of a diverse student population.
◆ Creating an academically rigorous and relevant learning environment.
◆ Facilitating college-wide commitment that supports access, student development, student success, and academic goal completion.

OBJECTIVES

◆ Orient all faculty on the new trends and goals
◆ Collaborate with international bodies/experts Teach the faculty how to:
  ▪ Conduct new methods of curriculum delivery
  ▪ Conduct new methods of assessment
  ▪ Use educational technology
◆ Provide all Collage of Applied Medical Sciences faculty with the needed support as curriculum preparation and delivery.

*"Learning is the start point
Of all achievement."*

FACULTY ORIENTITION

The online environment is different from the traditional classroom, it is important for the instructor to be trained "not only to use technology, but also to shift the way in which they organize and deliver material when becoming an online learner. In online education, the interaction between students and their instructors have been changed from face to face instruction to a virtual community. Thus, how to appropriately use technology to serve an instructional purpose tends to be another challenge for online education instructors.

New Interaction and Communication with Online Learners appears to be more important for online instructors on encouraging students self-directed, disciplined, and self-motivated. In order to design and deliver effective online instruction, instructors should know what qualifications they must have;

◆ First, they need to upgrade their technical skills in order to keep abreast of technological developments.
◆ Second, instructors need to know how to design interactive activities and course syllabi, how to operate the learning platform, and troubleshoot with problems online learners may encounter.

Training the faculty is best offered online, since it provides the instructors the same learning experiences as their students.

Strategies for Designing and Delivering Effective Online Instruction

To ensure the effectiveness of the online learning environment, a detailed course plan is required. The course plan should include, but not be limited to analyzing both students' and instructor's needs and class objective; selecting course materials for students' knowledge construction; designing activities, discussion topics, projects, and tests; envisioning any potential technical or academic problems; and testing the feasibility of the online course. When organizing the content for online courses, the learner's needs must be taken into account. The amount students learn, their ability to apply learned skills into practice, and their satisfaction with the learning experience should be considered. Evaluation is also an important component when implementing instructional design principles into online course design, because it is the way to gauge students' learning outcome and the quality of course instruction.

COLLABORATE WITH INTERNATIONAL EXPERTS

Online learning is also a way for subject-matter experts to pass on their knowledge in a delightful way.

◆ <u>Online Training and development platforms:</u>

FACULTY ENHANCEMENT ONLINE WORKSHOPS

Collage of Applied Medical Science conducted several online workshops during the Covid-19 epidemic and the start of online learning as showing below;

| Workshop	Objective	Speaker	Date
Online Exams Preparation	▪ To explain and distribute roles and responsibilities of each Program\Department during online exams on Blackboard.	Ms. Ashjan Al Lubli – Instructional Techno, Educational Affairs-Educational Technology.	8/4/2020
Blackboard Online Training	▪ To demonstrate the best practice on how to regulate and build online exams on Blackboard.	Ms. Adwa Al Hassan - PC TEch, Corporate Educational Technology Services.	15/4/2020
Technical Support During Final Exams	▪ To explain and demonstrate the best practice techniques to support students during online exams.	Ms. Ashjan Al Lubli - Instructional Techno, Educational Affairs-Educational Technology.	20/4/2020
Coams-J Blackboard Online Training	▪ To explain the Blackboard assessment tools and demonstrate the best practice and exams techniques	Ms. Adwa Al-Hassan 0505445651 hassanad@ksau-hs.edu.sa	14\4\2020
Virtual Classroom	▪ How to activate virtual class in blackboard	Educational Technology Services,	Monday, March 9, 2020 12:00 PM-1:00 PM
Blackboard Virtual Class Tutorial	▪ How to create & deal with virtual class in Blackboard (upload PPT – discussion in VC in- mange the attendees)	Mesheill alowaidhi/ Academic affairs -COAMSJ	Monday, March 9, 2020 3:30 PM-4:30 PM

COURSERA

It's an application works with universities and other organizations to offer online courses, specializations, and degrees in a variety of subjects.

King Saud bin Abdul-Aziz university for Health Sciences contracted with the *Coursera* platform to facilitate free online courses from July, 2020 to September, 2020 targeting the university' faculty and employees

◆ **The following are some courses and workshops that are related to online learning and Faculty enhancement:**

- Learning to Teach Online
- Virtual Teacher Specialization
- Powerful Tools for Teaching and Learning: Web 2.0 Tools
- Foundations of Virtual Instruction
- Advanced Instructional Strategies in the Virtual Classroom
- Performance Assessment in the Virtual Classroom
- E-Learning Ecologies: Innovative Approaches to Teaching and Learning for the Digital Age
- Assessment for Learning
- Get Interactive: Practical Teaching with Technology
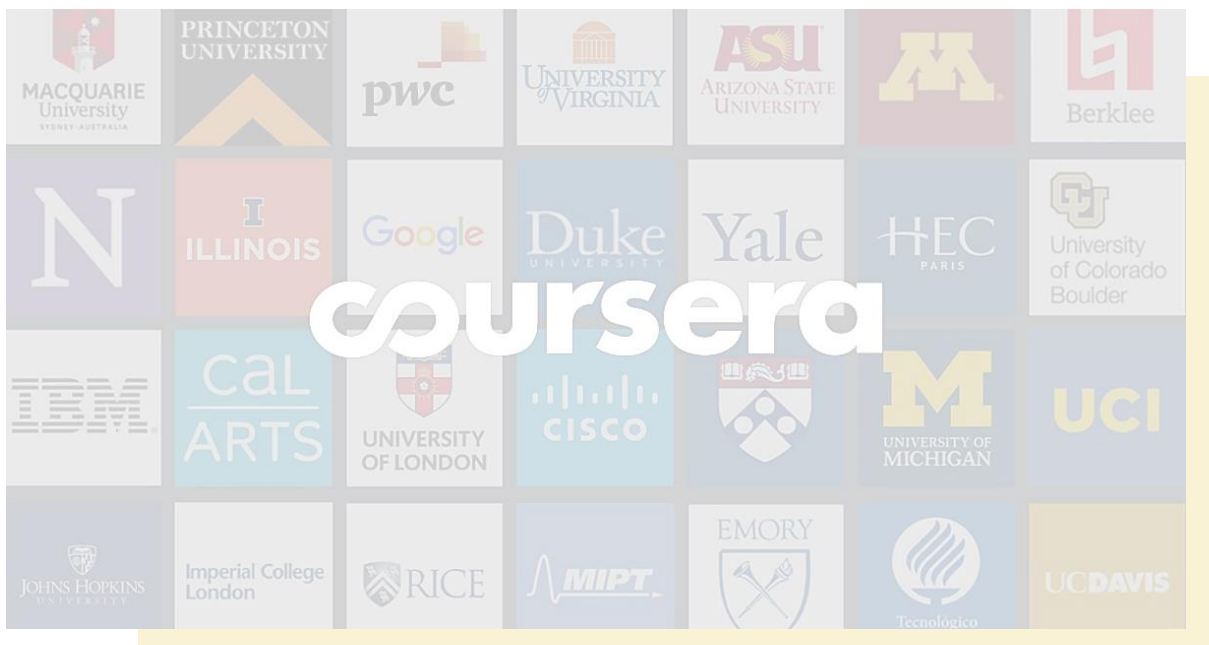
COMPLETED WEBINARS

Deanship of Postgraduate Education in collaboration with Medical Education College of Medicine-KSAU-HS prepared the following online workshops for faculty enhancement:

SERIES 1

Student Engagement in Virtual Teaching Sessions

1100-1300

24 August 2020 (Mon)

International Speakers:

Dr. Chris Robert (Australia)

SERIES 2

Delivering Lectures through Flipped Virtual Classes

1100-1300

25 August 2020 (Tue)

International Speakers:

Dr. Kettle Charles (Australia)

Dr. Rosa Howard (Australia)

SERIES 3

Teaching Practical and Clinical Skills Virtually

1100-1300

26 August 2020 (Wed)

International Speakers:

Dr. Ghazwan Altabbaa

(Canada)

SERIES 4

Virtual Problem-Based Learning

1100-1300

27 August 2020 (Thu)

International Speakers:

Dr. Kettle Charles (Australia)

Dr. Rosa Howard (Australia)

SERIES 5

E-Assessment in Health Professions Education

1100-1300

31 August 2020 (Mon)

International Speakers:

Dr. Gominda Ponnampenrma

(Sri Lanka)

Kingdom of Saudi Arabia
Ministry of National Guard Health Affairs
King Saud bin Abdulaziz University for Health Sciences
Deanship of Postgraduate Education

in collaboration with
Medical Education
College of Medicine - KSAU-HS

FACULTY ENHANCING WEBINARS SERIES

TARGET AUDIENCE: All Teaching Faculty and the KSAU-HS Faculty (Riyadh, Jeddah & Al-Ahsa)

SERIES 1
Student Engagement in Virtual Teaching Sessions
1100 - 1300
24 August 2020 (Monday)
International Speaker: Dr. Chris Roberts (Australia)
Registration will open: August 13, 2020 Thursday

SERIES 2
Delivering Lectures through Flipped Virtual Classes
1100 - 1300
25 August 2020 (Tuesday)
International Speaker: Dr. Kellie Charles (Australia)
Dr. Rosa Howard (Australia)
Registration will open: August 16, 2020 Sunday

SERIES 3
Teaching Practical and Clinical Skills Virtually
1100 - 1300
26 August 2020 (Wednesday)
International Speaker: Dr. Ghazwan Altabbaa (Canada)
Registration will open: August 19, 2020 Wednesday

SERIES 4
Virtual Problem-Based Learning
1100 - 1300
27 August 2020 (Thursday)
International Speaker: Dr. Kellie Charles (Australia)
Dr. Rosa Howard (Australia)
Registration will open: August 18, 2020 Tuesday

SERIES 5
E-Assessment in Health Professions Education
1100 - 1300
31 August 2020 (Monday)
International Speaker: Dr. Gominda Ponnamperuma (Sri Lanka)
Registration will open: August 19, 2020 Wednesday

ONLINE REGISTRATION :
https://events.ksau-hs.edu.sa

POWERED BY: Microsoft Teams

ptc.registration@ksau-hs.edu.sa
@postgraduatetc

نعود بحذر
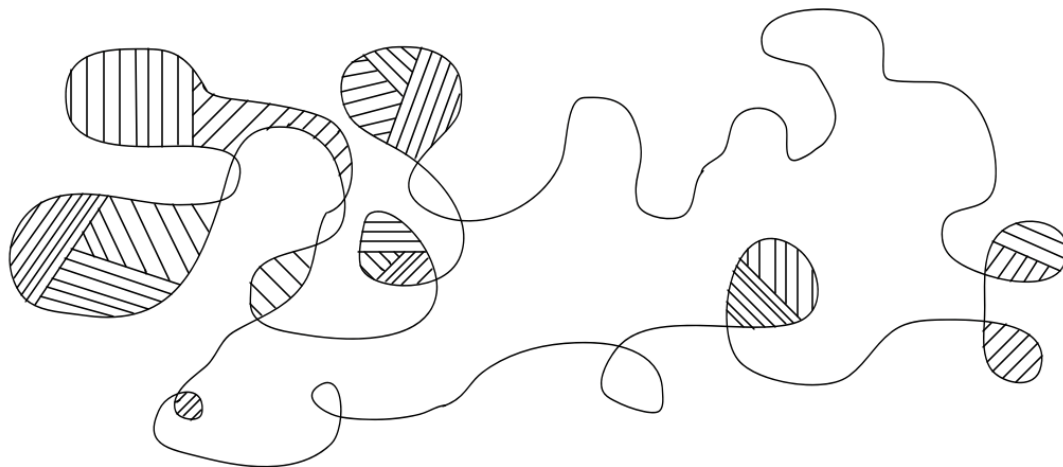SIGN-UP NOW ONLINE COURSES FOR FREE

UPCOMING WEBINARS

Collage of Applied Medical Science prepared the following online workshops for faculty enhancement:

◆ OCTOBER 2020

Workshop Title	Speaker	Date
Curriculum Delivery Through Different Educational Channel	Dr. Muneerah Al Qufie	14 October -2020
New Assessment Methods In Online Learning	Dr. Aidah Darwish	21 October -2020
Innovational Educational Technology	Dr. Aidah Darwish	28 October -2020

UPCOMING WEBINARS

Collage of Medicine prepared the following online workshops for faculty enhancement: (1)

SN	Workshop Title	Speaker
1	Successful Education In A Virtual World	TBA (2speakers)
2	Authentic Education In A Virtual World	TBA (2speakers)
3	Faculty Competency And Enrichment	**Local (College of Medicine-Jeddah):** Dr. M. Al Qurashi | Dr. M. Al Mansour Dr. H. Al Marzouki | Dr. N. Jastaniah Dr. S. Abed| Dr. H. Zarif | Dr. S. Saeed Dr. H. Al Jifree | Dr. M.A Khan Dr. S. Shah | Mr. A. AlQahtani
4	Problem-Based Learning	**Local (College of Medicine-Jeddah):** Dr. Hatim Al Jifree Dr. Ahmed Al Shehri
5	Conducting An Online Flipped-Class Room	TBA (2speakers)
6	E-Learning In Health Professions Education	**Local (Outside COM-J):** Ms. Lama Sultan
7	ACADEMIC COUNSELING	**Local (College of Medicine-Jeddah):** Dr. Ahmed Al Saleh Dr. Nisreen Jastaniah Dr. Hawazen Zarif Dr. Hatim Al Jifree Dr. Jamilah Al Rahimi Dr. Ranya A. Zahid
8	Assessing Education In The Virtual World	TBA (2speakers)
9	Educational Leadership In The Virtual World	TBA (2speakers)
10	How To Give Effective Feedback	**Local (Outside COM-J):** Dr. Reem Al-Affari Dr. Sara Abed
11	Principles Of Student's Assessment	**Local (College of Medicine-Jeddah):** Dr. Ahmed Al Shehri Dr. Sara Abed
12	Writing MCQS	**Local (College of Medicine-Jeddah):** Dr. Ahmed Al Shehri Dr. Muhammad Anwar Khan

UPCOMING WEBINARS

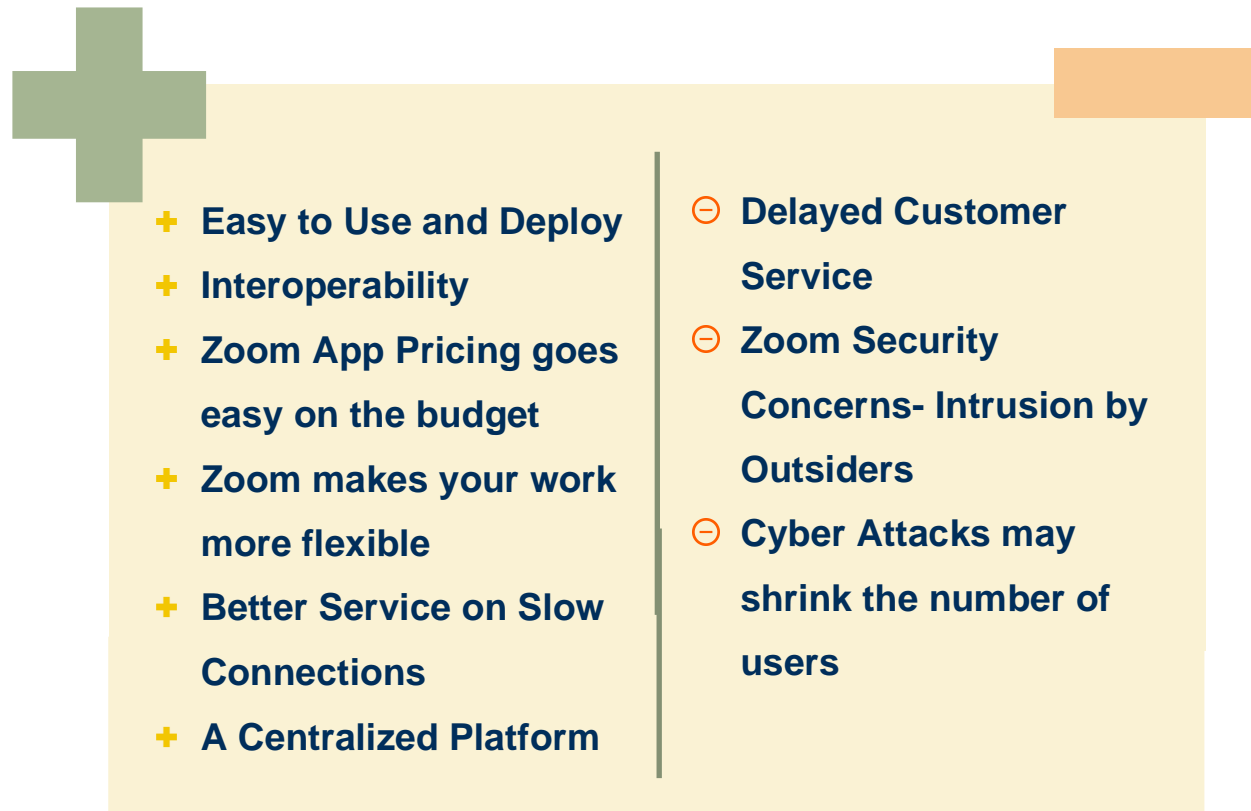Collage of Medicine prepared the following online workshops for faculty enhancement: (2)

	Workshop Title	Speaker
13	**Essential Skills In Educational Leadership & Management**	**Local (College of Medicine-Jeddah):** Dr. Hatim Al Jifree
14	**Emotional Intelligence For Health Professions**	**Local (Outside COM-J):** Dr. Heba Faden
15	**Introduction To KPI**	**Local (College of Medicine-Jeddah):** Dr. Syed Sameer Aga | Dr. Sabina Ahmed
16	**Proposal Writing In Transformational Research**	**Local (College of Medicine-Jeddah):** Dr. Faisal Zaidi
17	**Mentoring In Academia**	**Local (Outside COM-J):** Dr. Reem Al-Affari
18	**Advanced Presentation Skills – Going From Good To Great**	**Local (COMJ & Outside COMJ):** Dr. Muhammad Anwar Khan Ms. Lama Sultan
19	**Key Principles Of Professionalism**	**Local (Outside COM-J):** Dr. Reem Al-Affari Dr. Rolina Al-Wassia
20	**3rd Annual Research Forum**	**Local (Outside COM-J):**
21	**Manuscript Preparation & Publication**	**Local (College of Medicine-Jeddah):** Dr. Syed Sameer Aga Mr. Juan Manlangit
22	**2nd International Preclinical Models Forum**	**Local and International**

CURRICULUM DELIVERY

Zoom is a highly regarded educational software package that provides real-time online learning and student-teacher interaction in a live classroom environment. The software is specifically suited to academic institutions that incorporate distance-learning education into their curricula.

The Zoom classroom students may "raise their hands" to ask questions, answer instructor questions using a polling system, take notes, and carry on a group discussion much like a telephone conference call. Zoom provides an app for mobile devices (iOS and Andriod) to participate in live sessions and to replay recordings. All recordings of Zoom sessions may also be viewed on a full computer operating system (Windows or Mac).
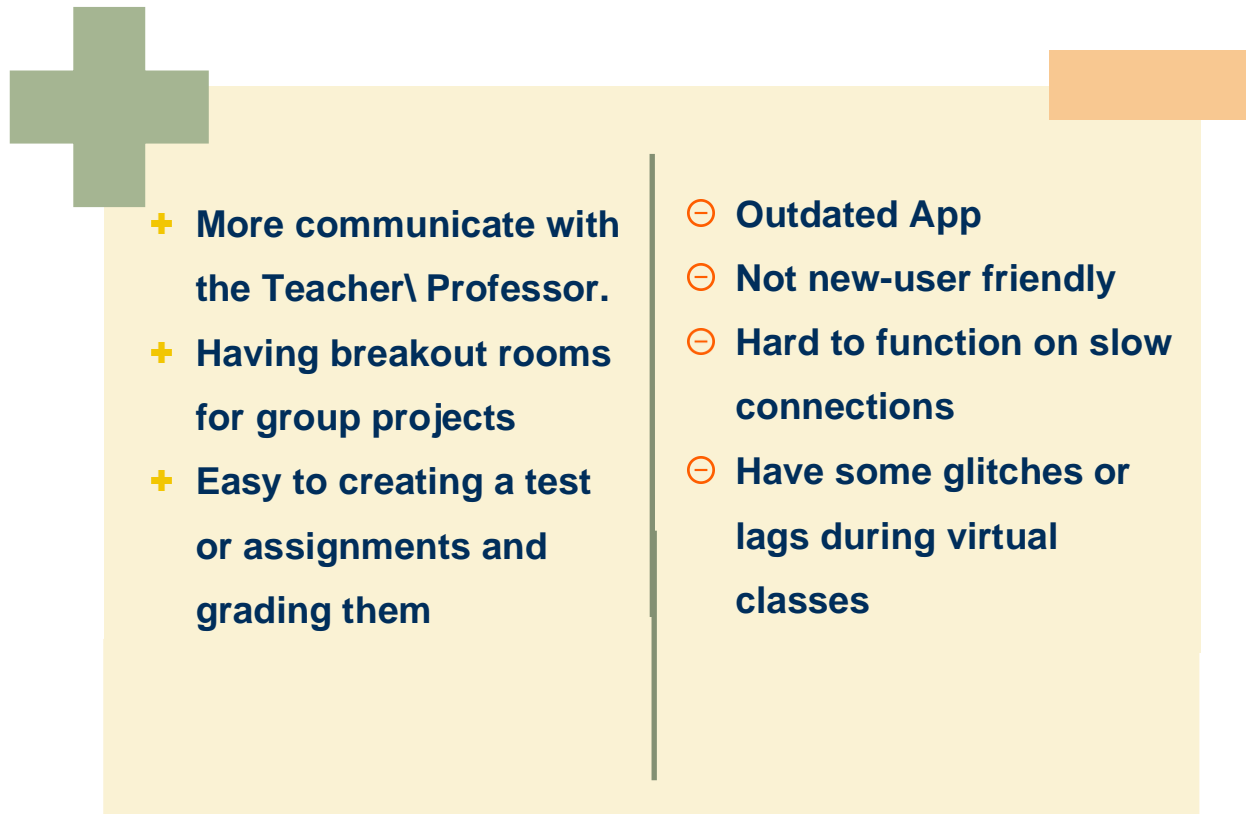
Advantage and Disadvantage of using ZOOM:

+ Easy to Use and Deploy	⊖ Delayed Customer Service
+ Interoperability	⊖ Zoom Security Concerns- Intrusion by Outsiders
+ Zoom App Pricing goes easy on the budget	⊖ Cyber Attacks may shrink the number of users
+ Zoom makes your work more flexible	
+ Better Service on Slow Connections	
+ A Centralized Platform	

CURRICULUM DELIVERY

Blackboard a virtual blackboard is an educational management tool and virtual learning environment that allows faculty to add resources for students to access online PowerPoint, Captivate, video, audio, animation, and other applications are created outside of Blackboard and added into Blackboard courses for students to enhance teaching and learning efforts.
It is designed to act as a virtual learning space for students to view resources, share work, communicate with each other and access support from their teachers.
It may be installed on local servers or hosted by Blackboard ASP Solutions.

Advantage and Disadvantage of using Blackboard:

- + **More communicate with the Teacher\ Professor.**
- + **Having breakout rooms for group projects**
- + **Easy to creating a test or assignments and grading them**

- ⊖ **Outdated App**
- ⊖ **Not new-user friendly**
- ⊖ **Hard to function on slow connections**
- ⊖ **Have some glitches or lags during virtual classes**

CURRICULUM DELIVERY

Microsoft Teams is a chat-based collaboration tool that provides global, remote, and dispersed teams with the ability to work together and share information via a common space. You can utilize cool features like document collaboration, one-on-one chat, team chat, and more. Microsoft Teams is also fully integrated with many other Office 365 services, such as Skype, SharePoint, Exchange, and Yammer. Microsoft Teams allows teachers to distribute, provide feedback, and grade student assignments turned-in via Teams using the Assignments tab, available to Office 365 for Education subscribers. Quizzes can also be assigned to students through an integration with Office Forms.

Advantage and Disadvantage of using Microsoft Team:

Advantages	Disadvantages
+ Integration of all tools in a single place	⊖ Too many similar tools
+ No additional cost for Microsoft 365 users	⊖ No unified search for all products
+ Useful chat additions	⊖ Unnecessary consumption of storage
+ Seamless files search, backup, and collaboration	⊖ Lack of notifications
+ Helpful bots	⊖ A limited number of channels

METHODS OF ASSESSMENT

The Assessments should be aligned with course objectives and subject aims, and should enhance students' vocational and disciplinary skills. An assignment is one of the major assessment tools used to measure students' learning competencies. To ensure the quality of assignments in the online learning environment, the instructor could design collaborative assignments, also include exemplary student work, permit revision of students' work, and encourage students to initiate course-related discussion topic.

New Methods of Assessments:

◆ **Mind mapping,** is a highly effective way of getting information in and out of your brain. Mind mapping is a creative and logical means of note-taking and note-making that literally "maps out" your ideas.
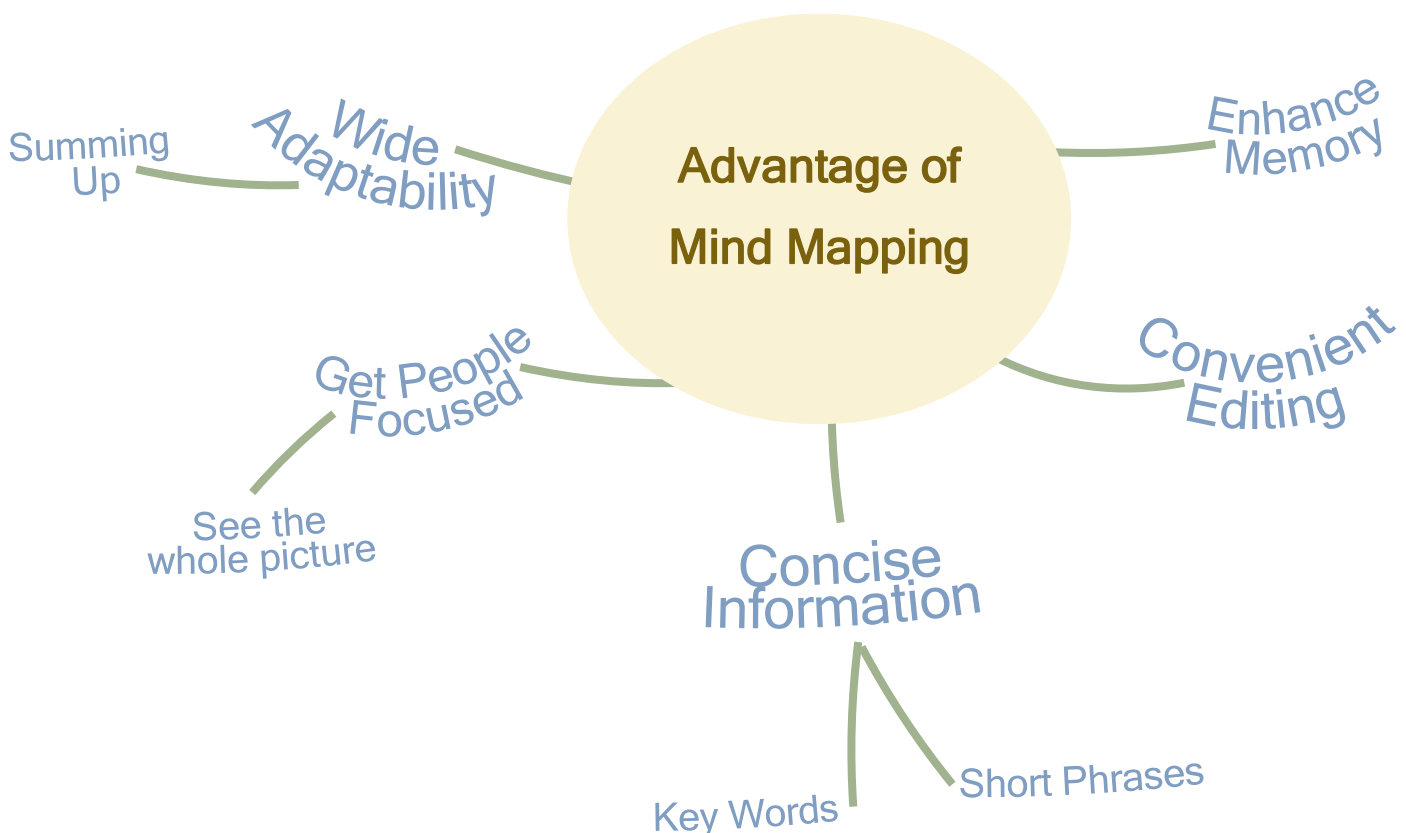
New Methods of Assessments:

◆ **Open Book,** is that in which students are allowed to refer to either class notes and summaries or a "memory aid", textbooks, or other approved material while answering questions. *The following are the most common pros and cons of open book exams:*

Pros:
+ Time Savior if it was auto grade
+ Paper Free
+ Secure: if each student got random set of questions

Cons:
− No checking on the students
− Fraud
− Student wont study and simply copy from the book

◆ **In General:**

- **Open-book** examinations and **collaborative** examinations promote development of critical thinking skills.
- **Open-book** exams are more engaging and require higher order thinking skills.
- Application of **open-book** exams simulates the working environment.
- Students prefer **open-book** exams and report decreased anxiety levels.
- **Collaborative** exams stimulate brain cell growth and intricate cognitive complexes.

EDUCATIONAL TECHNOLOGY

Education Technology (also known as "EdTech") refers to an area of technology devoted to the development and application of tools (including software, hardware, and processes) intended to promote education.

Examples of innovative educational technology

◇ <u>Digital readers and tablets</u>

Pros

+ They eliminate the need for students to carry around a heavy backpack full of books.
+ They provide a centralized, accessible place for all reading materials.
+ The regular updates of digital content eliminates the cost of purchasing new textbook editions every few years.
+ Apps added to tablets can meet the educational needs of the students and provide for more personalized learning opportunities.

Cons

⊖ To fully implement, schools would need to provide a tablet to every student and have a system in place for dealing with lost, damaged, or stolen assets. (However, a BYOD policy may be a feasible and more cost effective alternative.)
⊖ It eliminates the option for students to dramatically chuck their math book across the room when they get frustrated with it. (I feel that loss on a personal level.)

◇ <u>Virtual reality</u>

Pros

+ It provides engaging, real-life experiences that would otherwise be harmful or inaccessible.
+ Appeals to visual learners who like to see and experience things instead of merely reading about them.

Cons

⊖ Students using virtual reality may develop a lack of spatial awareness in the real world. In other words, they could hit or run into something in the real world while immersed in the virtual one.
⊖ Motion sickness can develop in some students due to their eyes sensing movement while their body does not.

◈ Gamification

Students learn better when they're having fun. The use of gaming in the classroom applies this concept by tying together the fun part of play with the content and concepts that students must learn.

Pros

+ It increases student engagement.
+ It creates enthusiasm for the lesson.
+ It provides immediate feedback.

Cons

⊖ Not every fun game is effective at teaching a given concept. Not every game that is effective at teaching the concept is fun, either.
⊖ It takes time and training to learn how to effectively use games for learning. However, platforms like Class craft use gaming technology and offer training for those who want to learn how to better implement it in their classrooms.

◈ Cloud technology

The cloud hosts apps and services on the internet instead of being on a user's computer. It enables information to be stored, shared, and accessed on any device that's connected to the internet. In education, the cloud is used to store and share digital textbooks, lesson plans, videos, and assignments. It's also used to give students the opportunity to chat live with their instructors and other classmates. In a related vein, cloud technology is enabling a new educational model known as 'flipped classrooms' in which students can watch a lecture before class and spend the class time engaged in discussion, group work, and analytical activities.

Pros

+ It reduces the chances of homework getting lost between school and home.
+ It reduces the need for students to carry heavy textbooks.
+ It enables students to easily access information from any device connected to the internet.
+ It enables quick and easy access to the teacher through live chat options.

Cons

⊖ To fully adopt the cloud, schools would need to somehow ensure that every student has adequate access to the internet.
⊖ Security. Although pretty much every network on the cloud has a security system in place to protect its information, hacking can be a concern.

◈ <u>Artificial intelligence</u>

Pros

+ It can save the teacher time by doing the grading and giving feedback on their behalf.
+ It provides greater insights into a student's learning patterns.

Cons

⊖ Teachers can learn a lot about a student's learning patterns by doing the grading themselves.
⊖ There's a personal element of care when a teacher gives personalized feedback (rather than letting a machine generate one).
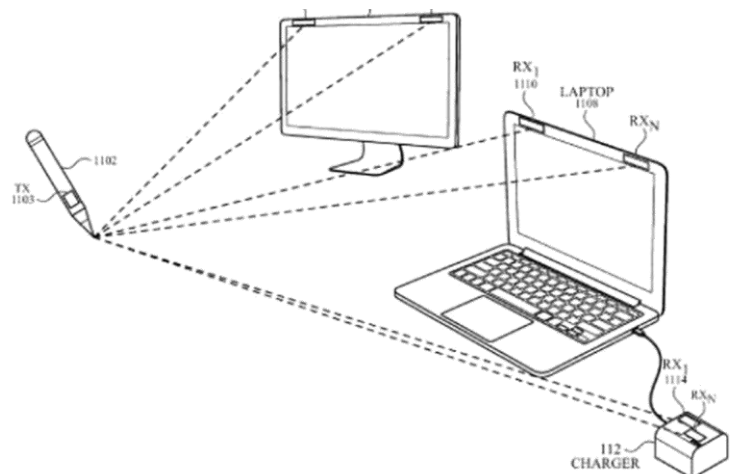
◈ <u>Mobile technology</u>

Pros

+ The wide variety of available apps offers the opportunity for students to engage in their own learning process.
+ Educational apps provide the opportunity to personalize learning to each student.

Cons

⊖ Not every student possesses a mobile device, and not every parent is comfortable with their child having one.
⊖ To really utilize this technology, schools would need to make sure that every parent is onboard and that every student has access to some sort of mobile device

REFERENCES

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Faculty

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