Differences between classical MOOC and μMOOC

- Very wide audience
- Very different participants
- More specific audience
- Participants with more similar background and knowledge

If we are developing an e-course to use with our students, then it is a μMOOC?

What would You add here?
First step - planning!
Structure

- set of videos (5-10 minutes each)
- multiple-choice questions
- assignments, tasks. Student have to upload assignment solutions into the MOOC platform. Assignments can be evaluated and graded:
  - automatically when possible
  - peer-to-peer: students evaluate and grade themselves
- forum, where students post questions that other students can answer
- reading materials - provided within the MOOC content or linked to open access texts
Possible mistakes and drawbacks (and how to avoid them)

- Impersonal nature, studying in isolation
- Lack of feedback
- Many will try but few will pass - especially when there are huge number of participants
- The self-motivated, work-as-you-please atmosphere doesn't work for everyone

🌟 the students who succeed in the MOOC environment are often self-motivated, self-directed, and independent individuals who would push to succeed anywhere
What to keep in mind?

- Students are different and their learning styles are different
- Students want to know the connection with real life
- Fun and learn in the same time
- Not too easy and not too difficult
- Flow
- Meaningful feedback
- Test it before starting with wider audience
Different pedagogical approaches

- **Problem-based learning (PBL)** is a student-centered pedagogy in which students learn about a subject through the experience of solving an open-ended problem found in trigger material.

- **Collaborative learning** is a situation in which two or more people learn or attempt to learn something together. Unlike individual learning, people engaged in collaborative learning capitalize on one another's resources and skills (asking one another for information, evaluating one another's ideas, monitoring one another's work, etc.).

- **Community-based learning (CBL)** is a teaching strategy that bridges academic theory and real-world practice. CBL promotes students’ academic learning and civic development while simultaneously addressing real world problems, community needs and interests.
Learning Styles

VERBAL
Words are your strongpoint! You prefer to use words both in speech and in writing!

VISUAL
You prefer to use pictures, diagrams, images and spatial understanding to help you learn.

MUSICAL / AUDITORY
You prefer using sounds or music or even rhythms to help you learn.

PHYSICAL / KINAESTHETIC
You use your hands, body and sense of touch to help you learn. You might 'act things out'.

LOGICAL / MATHEMATICAL
Learning is easier for you if you use logic, reasoning, systems and sequences.

WHAT'S YOUR LEARNING STYLE?

SOCIAL
You like to learn new things as a part of a group. Explaining your understanding to a group helps you to learn.

SOLITARY
You like to work alone. You use self-study and prefer your own company when learning.

COMBINATION
Your learning style is a combination of two or more of these styles.

http://www.whatismylearningstyle.com/
Assessing

- Self-assessment - questions that are integrated into learning materials and guide learner to review, repeat and summarize what was learned.
- Computer assessment - usually test and questions with multiple choice answers or setting the words into right order.
- Tutor assessment - written assignments (essays, reports, projects, etc).
- Peer assessment - non-formal comments while doing the group work and formal feedback to individual assignments.

What do You use most, why?
The 4D model

- goals
- audience
- tasks
- timeline

- stories
- research
- adjustments

- implementation

- progress
Groupwork time

- 4 groups
- Each group have to sketch a very simple STEM-classroom MOOC
- Think about structure components - use at least 5 different components (etc video, reading text, presentation, assignment, discussion forum, ...) please specify and open up the topic you choose
  - for example, if you pick “video”, you have to write which kind of video or what this video teaches to students
- Groups have to present their result to others and please explain why your group selected this topic
References

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