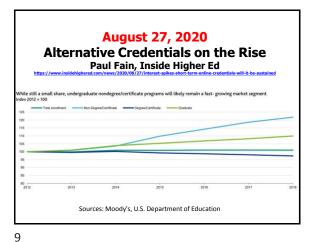
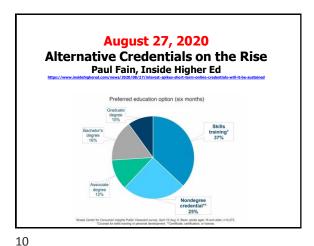


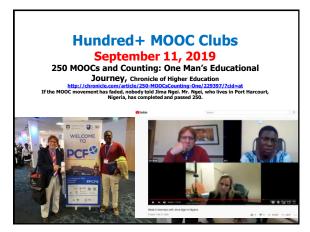
August 27, 2020 **Alternative Credentials on the Rise** Paul Fain, Inside Higher Ed Alternative Credentials on the Rise

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October 6, 2020

Faculty Confidence in Online Learning Grows
Doug Lederman, Inside Higher Ed

https://www.insidehighered.com/digital-learning/article/2020/10/06/covid-eraexperience-strengthens-faculty-belief-value-online

Faculty Confidence in Online Learning Grows

Faculty Confidence in

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Elephant in the room: How augmented reality takes online classes to exciting highs,

Abdul Latheef Naha, The Hindu

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Student Independent Studies Via MOOCs
MOOC: AI A-Z: Learning How to Build an AI Online Course
and Machine Learning

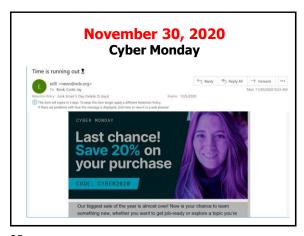
Mengyuan Zhao
https://www.udemy.com/artificial-intelligence-az/
https://www.udemy.com/artificial-intelligence-az/
https://www.coursera.org/learn/machine-learning

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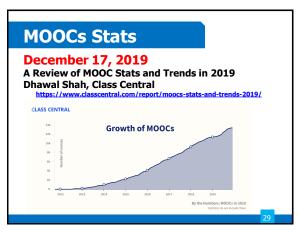


MOOCS Stats

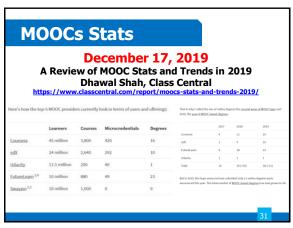
December 17, 2019
Online Degrees Slowdown: A Review of MOOC Stats and Trends in 2019, Dhawal Shah, Class Central https://www.classcentral.com/report/moocs-stats-and-trends-2019/

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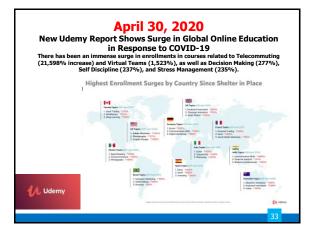
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April 30, 2020

New Udemy Report Shows Surge in Global Online Education in Response to COVID-19

People around the world are learning how to work from home and stay productive as the Future of Work arrives

Businesswire

https://www.businesswire.com/news/home/20200430005243/en/.

Udemy Topic Enrollment Trends

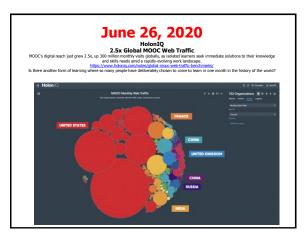
Surging enrollments

Growth in our top 10 skills

Tech Skills

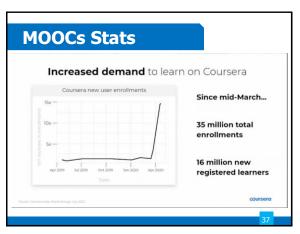
1. Sinches 1 460%
2. Homeof 1 460%
3. Microsoft Araver 131%
4. OpenCV 1 460%
5. Meural Networks 201%
5. Neural Networks 201%
5. Secun Mastery 1319%
5. Communication † 1339%

33 34

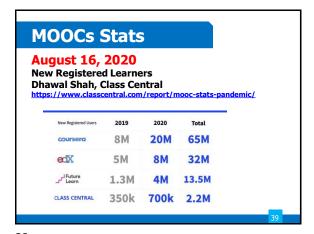




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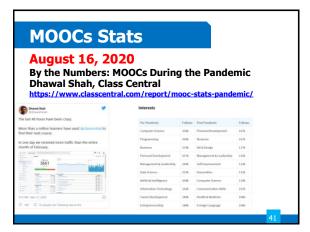
MOOCS Stats

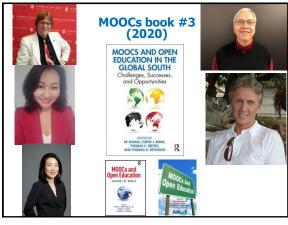
August 16, 2020

By the Numbers: MOOCs During the Pandemic Dhawal Shah, Class Central https://www.classcentral.com/report/mooc-stats-pandemic/

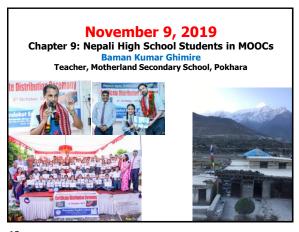
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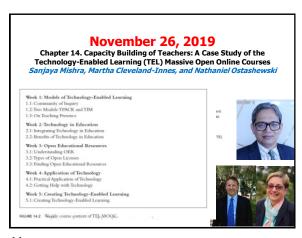
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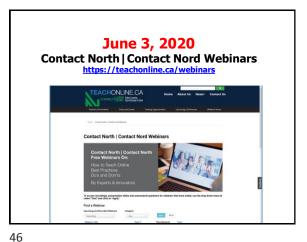


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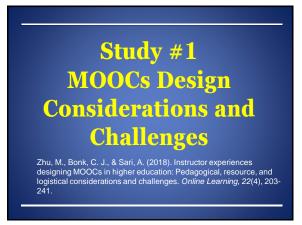




November 20, 2020

Many Texas families say remote learning isn't working and they want it fixed https://www.texastribune.org/2020/11/20/texas-schools-remote-learning/

51 52



Research Background

- MOOCs can be beneficial to both learners and instructors (Hew & Cheung, 2014).
- Instructional design is critical for online learning (Johnson & Aragon, 2003; Phipps & Merisotis,
- Instructors are one of the five main components of MOOCs (Kop, 2011).
- Few studies have examined instructional design from MOOC instructors' perspectives (Margaryan et al., 2015; Watson et al., 2016).

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Research Purpose

The purpose of this study is to provide suggestions for future MOOC instructors and instructional designers in higher education through exploring MOOC design considerations and challenges from the instructor's perspective.

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Interpreta tion of

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Research Design

Quan

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· Sequential mixed methods design (Creswell & Clark, 2017)

Data Collection Data Analysis Collection Analysis

Data Collection

Research Questions

designing MOOCs?

1. What are the design considerations of instructors when designing MOOCs?

they perceive related to MOOCs?

2. What challenges do instructors perceive when

3. How do instructors address the challenges that

- · Data Collection:
 - o Survey, interview, and course review
- · Participants:
 - 143 survey participants (10% response rate)
 - o 12 interviewees



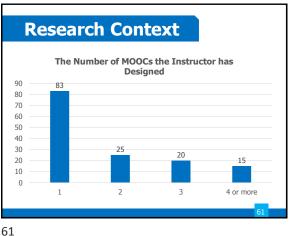
12 Interviewees

No.	Countries	Subject areas	Platforms
1.	The U.S.	Language and Literacy	Coursera
2.	The U.S.	Education	Coursera
3.	The U.S.	Education	Canvas
4.	The U.S.	Chemistry	Coursera
5.	UK	Medicine and Health	FutureLearn
6.	UK	Language and Literacy	FutureLearn
7.	Hong Kong (China)	Math	Coursera
8.	Mainland China	Math	Coursera
9.	Canada	Psychology	Coursera
10.	Australia	Medicine and Health	Open2Study
11.	Sweden	Computer Science	edX
12.	India	Management	edX

Data Analysis

RQs	Data Sources	Data analysis
	Survey-multiple-choice questions	Descriptive statistics
RQ1	Survey-open-ended questions	Content analysis (Elo & Kyngäs, 2008)
IQ1	Interview	Content analysis
	MOOC review	Content analysis
	Survey-multiple-choice questions	Descriptive statistics
RQ2	Survey-open-ended questions	Content analysis
	Interview	Content analysis
RQ3	Survey-multiple-choice questions	Descriptive statistics
25	Interview	Content analysis

59 60



Research Context The Number of Learners Enrolled in Recent МООС 23% 38% 13% Less than 5,000 **5,000-10,000 10,001-15,000 15.001-20.000** ■ More than 20.000

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Findings RQ1 RQ #1. What are the design considerations of instructors when designing MOOCs? · Learning objectives An example of learning objectives: Assessment · Time for designing MOOC · Engaging learners

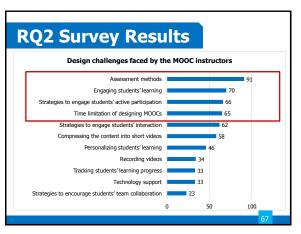
RQ1 Survey Results MOOC Design Considerations Objectives of the course ent activities (e.q., peer review, quiz) Duration of the cours Time for designing this MOOC Platform of offering this MOOC Pedagogical approaches Learning contents that will be delivered Instructors' role
Support from institution
Flexibility Support from the platform Collaborative learning support Available existing intellectual resources (e.g., OERs, videos)
Hardware resources (e.g., recording studios, cameras) Target learners' self-directed learning ability Cultural sensitivity Learning theory
Software resources (e.g., video editing software)
Source of motivation Tools for communication (e.g., Facebook, Twitter, blog,

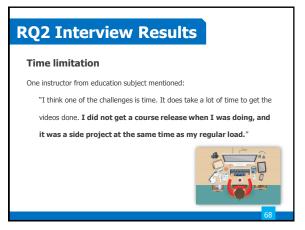
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RQ1 Interview Results Engage learners One instructor from US mentioned: "I engaged people in the forum. So each week I would write a message that would be the new welcome page for the week that would say, 'hey come to the forum and ask questions about this or come to the forum introduce yourself'... Of course, I tried to get students to feel like I was engaged with them during the videos by asking them questions and telling them to do things during the video." James M Lepkowski

Findings RQ2 RQ #2. What challenges do instructors perceive when designing MOOCs? Please Review My Random Sample of Faculty
 Assignment · Assessment methods · Engaging students' learning · Time limitation

65







RQ3 Survey Results

Ways to Address Challenges

Browsing other MOOCs for ideas, examples, and benchmarks
Seeking help from the platform
Seeking help from colleagues
Seeking help from institution (e.g., administrator)
Seeking help from tother MOOCs instructors
Reading books or articles related to MOOCs
Seeking help through online searching
Attending training sessions or workshops
Reading news related to MOOCs
Attending conferences or other professional events on MOOCs

Attending conferences or other professional events on MOOCs

69

RQ3 Interview Results

Explore other MOOC examples

One MOOC instructor from the US mentioned:

"When I started making the MOOC, I could see MOOCs that other people had made. So I could see what other people did in terms of having videos with questions embedded in the videos, which I really liked."

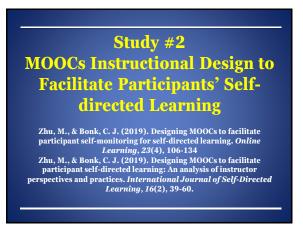
DiscussionThe time limitation of cr

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- The time limitation of creating MOOCs was the primary logistical consideration (Hew & Chung, 2014; Watson et al., 2016) and challenges.
- The pedagogical factors were the primary design considerations (Watson et al., 2016) and challenges in MOOC design.
- The assessment and engagement strategies are the main considerations as well as challenges.

72

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Self-directed learning (SDL) (Garrison, 1997)
(1) self-management
(2) self-monitoring
(3) motivation

73 74

Research Background

- Learners need self-directed learning skills and strategies to be successful in MOOCs (Halawa, Greene, & Mitchell, 2014; Littlejohn & Milligan, 2016), as there is a lack of personalized interaction with teachers.
- Self-directness of a learner might vary in different learning environments which means that the learners could be more self-directed in one learning environment than another (Hiemstra, 1994).

Research Background

- Instructional design can greatly influence students' interaction and engagement (Garrison & Cleveland-Innes, 2005) and success in online learning (Song, Singleton, Hill, & Koh, 2004; Svan. 2001).
- However, few studies have examined instructional design and the delivery of instruction using MOOCs from instructor perspectives (Margaryan et al., 2015; Watson et al., 2016; especially lacking is research on instructors' perception of SDL and how they design MOOCs to facilitate students'

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Research Purpose

 The purpose is to inform instructors or instructional designers and MOOC providers of the current practices of designing MOOCs to facilitate learners' SDL.



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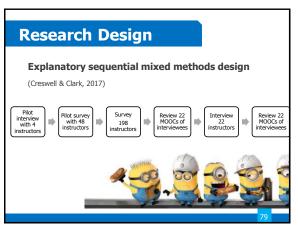
Research Questions

- 1. How do MOOC instructors perceive participant SDL skills?
- How do MOOC instructors perceive their facilitation of participant SDL skills?
- 3. How do instructors design and deliver MOOCs to facilitate participant SDL skills?
 - a. How is technology being used by MOOC instructors to support the development of participant SDL skills?
 - b. What technology features or functions do MOOC instructors want to have to improve their facilitation of MOOC participant SDL skills?

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Data Collections

Survey:

• Volunteer sampling (Creswell & Clark, 2017)

• 198 instructors responded to the survey (10% response rate)

Interview:

• Homogeneous purposeful sampling (Creswell & Clark, 2017; Patton, 2002)

• Maximal variation sampling (Creswell & Clark, 2017)

• 22 interviewees

MOOC review:

• Reviewed 22 interviewees' MOOCS

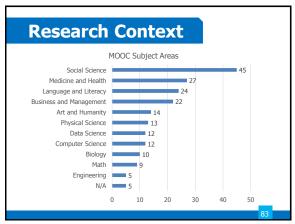
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Pseudonym	Country	Subjectarea	Platform	Gender	No. of O/B	No. of M	Mode of the M
Lucas	US	Social science	edX	М	0	1	I without T
Branden	US	Education	Udacity	М	0	5 or more	Self-paced
Logan	US	Literacy and Language	Coursera	М	5 or more	5 or more	I with T
Emma	US	Literacy and Language	Coursera	F	2	1	Self-paced
Jason	US	Science	edX	М	1	1	I with T
Jackson	US	Medicine and health	Coursera	М	5 or more	1	Self-paced
Samuel	US	Education	FutureLeam	М	4	3	Self-paced
Hannah	US	Education	Blackboard	F	5 or more	1	I with T
Ashley	US	Education	EdX	F	0	5 or more	I with T
Andrew	UK	Art	FutureLeam	М	0	3	I with T
Emily	UK	Medicine and health	FutureLeam	F	2	2	I with T
Aiden	UK	Social science	FutureLeam	М	0	1	Self-paced
Henry	UK	Social science	FutureLeam	М	0	1	Self-paced
Joseph	UK	Medicine and health	FutureLeam	М	1	1	Self-paced
Joshua	UK	Literacy and language	FutureLeam	М	2	2	I with T
Mason	Australia	Education	Coursera	М	5 or more	1	I with T
Ethan	Australia	Business	Coursera	М	3	1	I without T
Ben	Australia	Social science	edX	М	1	1	I with T
Paul	France	Computer Science	Coursera	м	1	1	I with T
Fernando	Belgium	Research methods	Blackboard	м	5 or more	3	I with T
Jacob	Netherland	Science	Coursera	м	0	1	I with T
Dylan	Israel	Science	Coursera	М	5 or more	3	I without ?

Data Analysis RQs Data Sources Data analysis Tools Descriptive statistics Survey Interview Content analysis (Elo & Kyngäs, 2008) NVivo Descriptive statistics SPSS RQ2 Content analysis Interview Content analysis RQ3 Course review Content analysis NVivo

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RQ1 Perceptions of SDL · A majority of the MOOC instructors thought that these skills or attributes are not static, and that SDL as a set of skills can be educated or students' personal attributes that can be changed. **MOOC Instructors' Perceptions of SDL** SDL is a set of skills that can be 112 educated SDL is related to students' personal attributes that can be changed Other (please describe) SDL is related to students' learning personal attributes that can never be... 20 40 60 80 100

83 84

RQ1 Interview Results

 Emma's understanding of SDL is more related to self-management and motivation. She said:

"When I think about self-directed learning, I think about students managing their time and managing the coursework on their own, and how it fits into their schedules and their lives, how they interact with materials, what's going to keep them engaged."



85 86

RQ2 Interview Results

89

 Ashely emphasized the importance of both instructors' facilitation and students' SDL skills. She said:

"The participant has a lot of flexibility on how they approach the content. I mean, obviously, we have things like assignments. We have things like online forums. And there're ways that we scaffold the learning experience. But there still is a lot of choice for the learner."



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RQ2 Perceptions of Facilitation of SDL

- Most of MOOC instructors thought that they can intentionally or unintentionally facilitate students' SDL.

Participants' Perceptions of Their Role in Facilitating Students' SDL

Instructors can intentionally create a learning environment to help...

Other (please describe)

Instructors can unintentionally create a learning environment that...

Instructors can do nothing for students' SDL skills.

0 50 100 150 200

RQ3 Strategies to Facilitate SDL

Students' intrinsic motivation plays an important role.
 However, extrinsic motivation provided by the MOOCs might help transfer extrinsic motivation to intrinsic motivation.

Motivations	Strategies
Entering	MOOC instructors helped students identify the
motivation	needs and goals of learning and sense of
	achievement.
Task motivation	MOOC instructors motivated students through
	instruction, learning materials, feedback, and
	learning community.

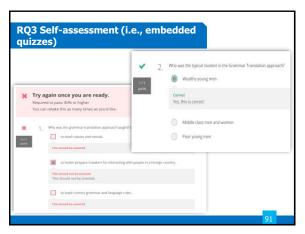
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RQ3 Strategies to Facilitate SDL

 Both internal feedback and external feedback were provided to help students' self-monitoring.

Self-monitor		Strategies	
Internal	Cognition	MOOC instructors provided quizzes for self-assessment, tutorial	
feedback		on technology use, learning advice, navigation of the course, progress indicators, resources, and instructional modeling, etc.	
	Meta-cog	MOOC instructors encouraged students to reflect and think	
		critically by providing reflection questions and building learning community.	
External		MOOC instructors, teaching assistants, and peers were involved	
feedback		in providing external feedback.	



RQ3 Progress Indicators

Course Progress for Student

Pass 60%

Pa

91 92

RQ3 External Feedback: Peer-assessment
(e.g., 3 peers assigned to review each assignment)

REQUIRED

Quiz

Nov 19

Module 2 Review Quiz
20 min

Peer-graded Assignment
Critical Evaluation of the 2 Approa...
2h

Review Your Peers
Critical Evaluation of the 2 Approa...

RQ3 Strategies to Facilitate SDL

• They helped students' self-management concerning setting learning goals, time management, resources and support management although among the three elements of SDL, MOOC instructors had less control over students' management.

Self-management
Enactment of learning goals

Providing discussion questions, reflections, survey, and appreciation students' learning goals.

Time management

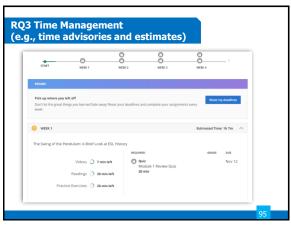
Providing time frame, progress indicator, short learning units, and flexible timeline.

Management of resources and support

Providing flexible learning resources, peer-assessment, accessibilities, clear expectations, and short learning units.

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RQ3-a. Tech Used for SDL

Synchronous communication technologies
Google Hangouts
YouTube Live
YouTube
Live

Asynchronous communication technologies
Discussion forum Blog Slackbot Flickr
General Discussion Found General Discussion Flickr

Multimedia (e.g., video and graphics)
Feedback technologies

95 96

Discussion

- · SDL can be Changed
- MOOC Instructors can Facilitate SDL
- Strategies to Facilitate SDL: A variety of strategies can be used to facilitate student SDL skills in terms of motivation, selfmonitor, and self-management.
- Tech for SDL: Tech plays a vital role in facilitating SDL skills.
- Tech expectations: Adaptive learning systems, artificial intelligent systems, and learning analytics were expected to have to support SDL.

97 98

Top 10 Strategies to Facilitate SDL in MOOCs

- 1. Helping students set their own learning goals.
- 2. Building learning community.
- 3. Offering immediate feedback.
- 4. Embedding quizzes for self-assessment.
- 5. Providing progress indicators.
- 6. Providing reflection questions.
- 7. Designing short learning units.
- 8. Providing flexible timelines.
- 9. Highlighting estimated time frames.
- 10. Making available optional learning materials.



100

Top 10 Strategies to Facilitate SDL in MOOCs

1. Helping students set their own learning goals.

· For MOOC instructors and Instructional Designers

o Create a personalized learning environment

o Provide learning analytics to support learning and teaching

o Build learning community

o Inspire intrinsic motivation

o Personalize learning

· For MOOC providers

Example:

Implications

"I have asked, at the first page of course, why they're taking the course. So that is the goal. A lot of people say, 'I'm a teacher. And I want to do the stuff with my kids. Or I want to update my knowledge. Or I'm retired and I want to learn this."



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Top 10 Strategies to Facilitate SDL in MOOCs

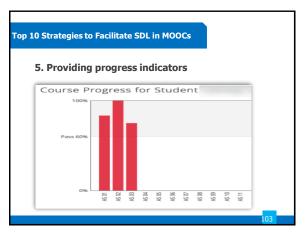
2. Building learning community.

Joshua from the UK mentioned: We use a lot of resources that already exist. And then we use the MOOC discussion board as a place to where they, kind of, point out and say, "I've seen this. And this is useful. Well,



Top 10 Strategies to Facilitate SDL in MOOCs 3. Offering immediate feedback. 4. Embedding quizzes for self-assessment.

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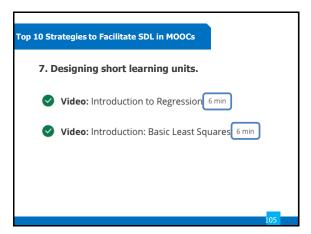


Top 10 Strategies to Facilitate SDL in MOOCs

6. Providing reflection questions.

We introduced kind of moments that video was stopped and there was a question. The student had to think of it a bit. Sometimes it was kind of a rhetorical question. There wasn't even no answer required. But it was just a pause for a while to let the student reflect. (Jacob)

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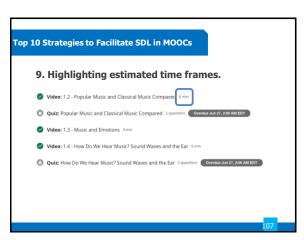
Top 10 Strategies to Facilitate SDL in MOOCs

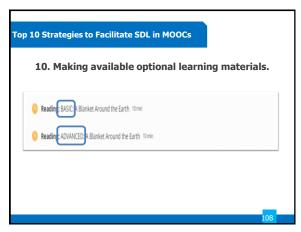
8. Providing flexible timelines.

You've already completed 71% of your course! Reset your deadlines so you can finish the rest!

Reset my deadlines

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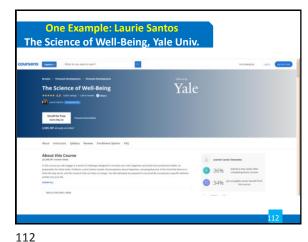


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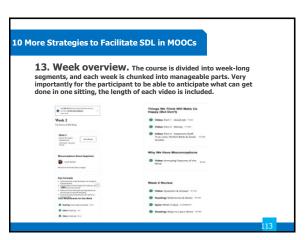


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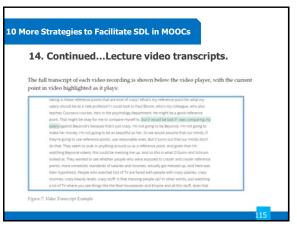


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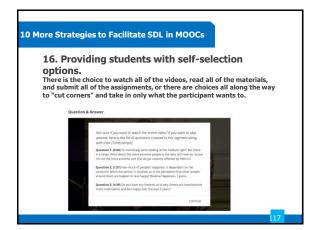




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10 More Strategies to Facilitate SDL in MOOCS

1.7. Visuals showing tasks completed.

One of the provided by you were to bear?

One of the provided by your were to bear?

One of the provided by your were to bear?

One of the provided by your were to bear?

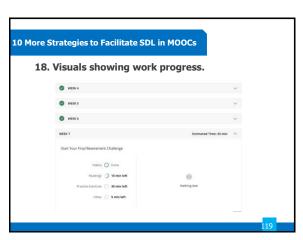
One of the provided by your were to bear?

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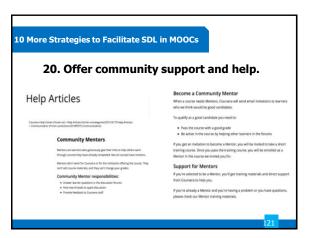


19. Rewirements (assignments) for putting the material to practice (e.g., Random Acts of Kindness, Make A Social Connection, Let's Get Physical, Meditatel, Sleepl, Gratitude Letter/Visit, Savoring, etc.)

Daily Gratitude Journal

Gratitude is a positive emotional state in which one recognizes and appreciates what one has received in life. Research shows that taking time to experience gratitude can make you happier and even healthier. For the next seven days, you will take 5-10 minutes each night to write down five things for which you are grateful. They can be little things or big things. But you really have to focus on them and actually write them down (Again, try to develop a tracking method works for you and utilize a note on your phone, a daily calendar, a special notebook, etc). You can just write a own of or short phrase, but as you write these things down, take a moment to be mindful of the things you're writing about (e.g., imagine the person or thing you're writing about, etc.). This exercise should take at least five minutes. Do this each night for the whole week.

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10 More Strategies to Facilitate SDL in MOOCS

Bonus Item: Peer-graded assignments.

Cyportunities for vita bord-vita bord vitar action and accid fourning are provided in discussion formum on In the final assignment, a prevenguable devictors.

Feer-graded Assignment: Reflect on the Revoir erment Challenge

The Graded Assignment: Reflect on the Revoir erment Challenge

The Graded Assignment and accident fourning are provided in discussion formum on In the final assignment assignme

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International Review of Research in Open and Distributed Learning
Volume 19, Number 4

September - 2018

Pushing Toward a More Personalized MOOC: Exploring
Instructor Selected Activities, Resources, and
Technologies for MOOC Design and Implementation

Ours J. Book: Mainz Zhui, Mahayoung Korr, Shuya Xari, Naja Sabri, and Annias R. Sari³
Indiana University, USA "Liversity of West Foots. USA, "Regulator Sales University, Indianasias

Abstract

This study explores the activities, tools, and resources that instructors of massive open online courses
(MOOCs) use to improve the personalization of their MOOCs. Following email interviews with 25 MOOCs.

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Additional Research 1. An Y.-J. Zhu, M., Bonk, C. J., & Lin, L. (2020, June 6-published online first). Exploring instructors perspectives, practices, and perceived support needs and barriers related to the gain of the control of t

Thanks

Amy Questions?

Curtis Bonk: cjbonk@Indiana.edu

Meina Zhu: meinazhu@wayne.edu

Slides and Proceedings Paper at TrainingShare.com:

http://www.trainingshare.com (go to "Archived Talks")

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