



# **MOOCS Organisational Features: A Fine Grained Approach**

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# MOOC Key Features

M

- Massive
- Participants
- Activities

O

- Open
- Access
- Free

O

- Online
- Internet

C

- Course
- Structured curriculum
- Start and end dates

# MOOC Evolution

- 2008 – The term MOOC was first introduced by Dave Cormier
- 2011 – ‘Introduction to Artificial Intelligence’ - 160,000 learners, 190 countries
- 2012 – Coursera, edX and Udacity - “The Year of the MOOC”
- 2013 – >6.5 million people registered for a MOOC
- 2014 – Enrolments accelerated - 17 million
- 2015 – 35 million people with over than 800 courses
- 2016 – 23 million people registered for the first time - 58 million
- March 2017 – The cumulative number of MOOCs is reaching nearly 8,500.

CMOOC

VS

XMOOC

Connectivism

Learner-  
centered

Participatory

Cognitivism  
Behaviourism

Teacher-  
centered

Content-  
based

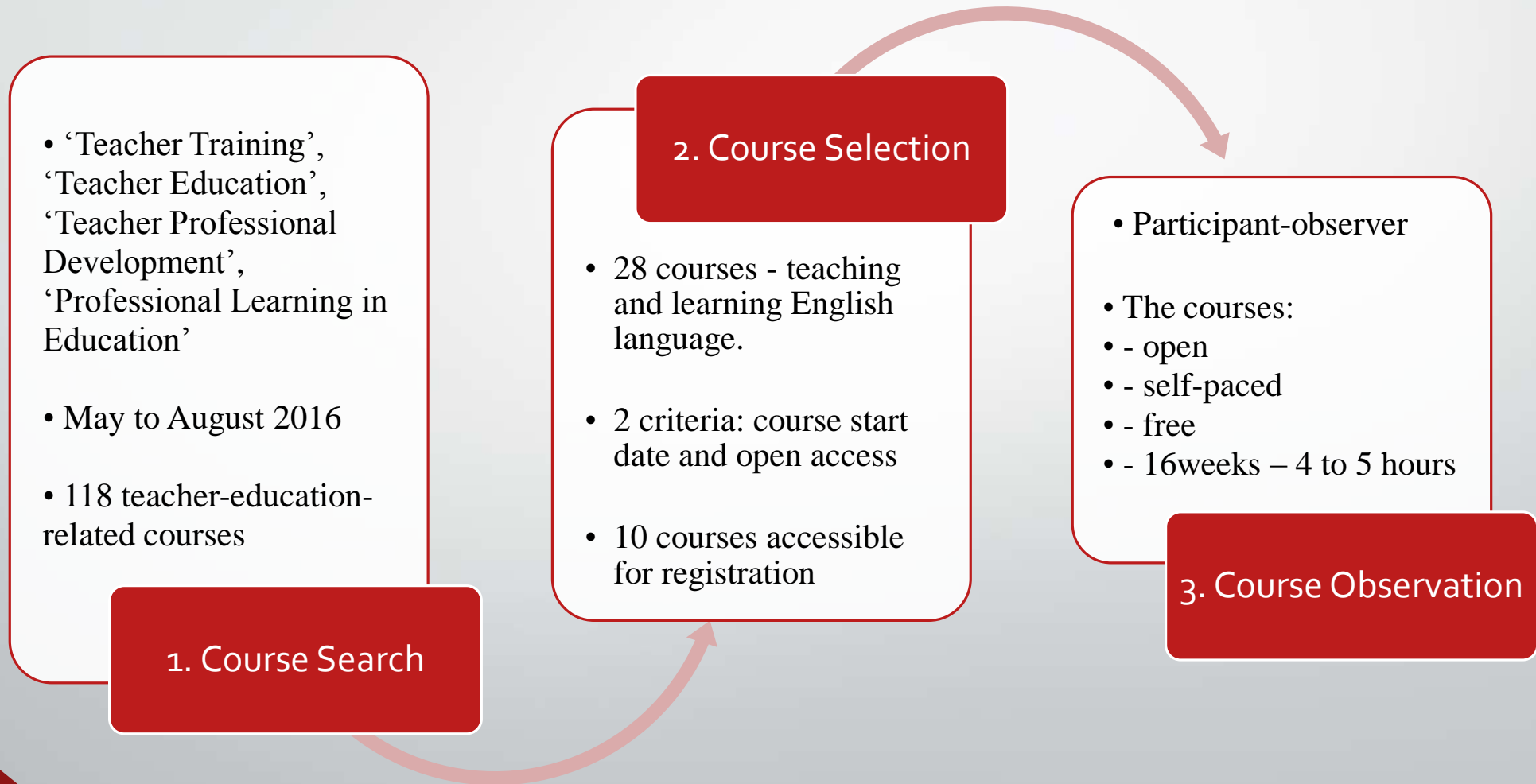
Videos &  
Quizzes



# Research Objective

Explore the organisational features  
of MOOCs through a more fine  
grained approach

# Methodology



# The Course Information

<b>Courses</b>	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Course 7	Course 8	Course 9	Course 10
<b>University</b>	Stanford University	Oregon University	Arizona State University	Arizona State University	Arizona State University	Arizona State University	Arizona State University	Arizona State University	Universitat Autònoma de Barcelona	Cambridge University
<b>Platform</b>	NovoEd	Canvas	Coursera	Coursera	Coursera	Coursera	Coursera	Coursera	Coursera	FutureLearn
<b>Length</b>	20 Weeks	4 Weeks	6 Weeks	6 Weeks	6 Weeks	6 Weeks	6 Weeks	6 Weeks	4 Weeks	6 Weeks



# Findings

Course Materials

Assessment

Pedagogical Assumptions



# Course Materials

Courses	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Course 7	Course 8	Course 9	Course 10
<b>Range of Learning Materials</b>	Videos and Articles	Articles	Videos, Articles, Lesson Plan Templates	Videos, Articles, Lesson Plan Templates	Videos and Articles	Videos and Articles	Videos and Articles	Videos, Articles, Lesson Plan Templates	Videos and Articles	Videos and Articles
<b>Instructional Delivery</b>	Video Lecture	-	Video Lecture	Video Lecture	Video Lecture	Video Lecture	Video Lecture	Video Lecture	Video Lecture	Video Lecture, Notes
<b>Discussion Space</b>	-	√	-	-	-	-	-	-	-	√
<b>Social Media</b>	-	-	-	-	-	-	-	-	-	Facebook
<b>Badging</b>	-	√	-	-	-	-	-	-	-	-

# Assessment

Courses	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Course 7	Course 8	Course 9	Course 10
<b>Assessment Types</b>	Formative	Formative	Formative and Summative	Formative and Summative	Formative and Summative	Formative and Summative	Formative and Summative	Formative and Summative	Formative	Formative
<b>Frequency</b>	Weekly, after lessons learned	Weekly, before each module ended	After lessons learned, before each module ended	After lessons learned, before each module ended	Only on the first week and final week	After lessons learned and before each module ended	After lessons learned and before each module ended	After lessons learned and before each module ended	Weekly, before each module ended	Random, no specific structure
<b>Times of Learner Attempts</b>	-	3	3	3	3	3	3	3	3	Many
<b>Auto-Generated Answers</b>	-	√	√	√	√	√	√	√	√	√
<b>Peer Grading</b>	√	-	-	√ (Optional)	√ (Optional)	√	√	√	√	-

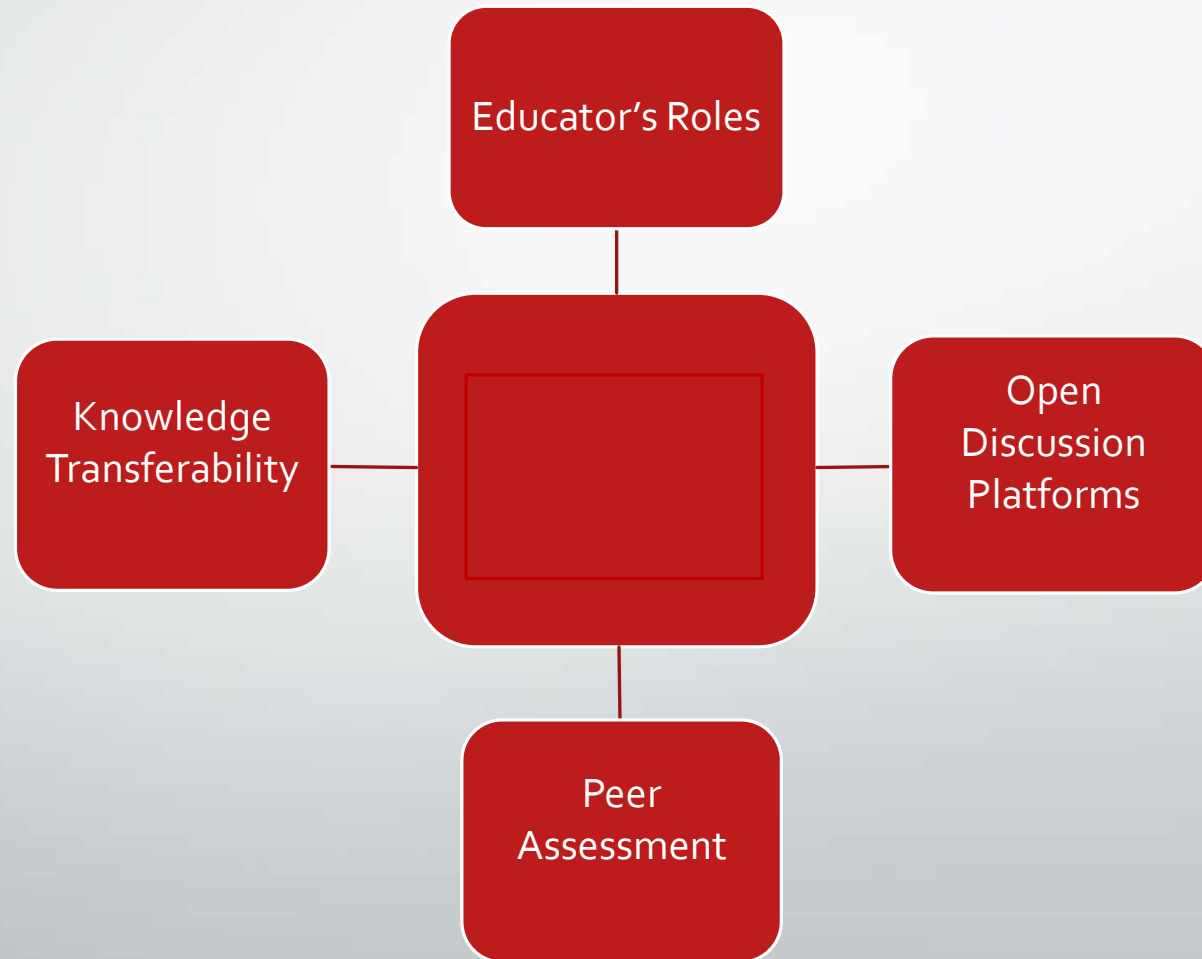
# Pedagogical Assumptions

Courses	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Course 7	Course 8	Course 9	Course 10
Educators	Instructors and Teaching Assistants	Instructors and Teaching Assistants	Instructors and Teaching Staff	Instructors and Teaching Staff	Instructors and Teaching Staff √	Instructors, Teaching Staff and Mentors	Instructors, Teaching Staff and Mentors	Instructors, Teaching Staff and Mentors	Instructors and Teaching Staff	Instructors and Mentors
Content Emphasis	Pedagogy	Pedagogy	Pedagogy	Pedagogy	Pedagogy	Pedagogy	Pedagogy	Pedagogy	Content	Pedagogy
Promotes Classroom Application	√	√	√	√	√	√	√	√	-	√
Learner Networks	-	√	-	-	-	-	-	-	-	√
Degree of Openness	Less open	More open	Contained	Contained	Contained	Less open	Less open	Less open	Less open	More open

# Possibilities within xMOOCs

Key Questions	
Criteria	
Pedagogy	<ul style="list-style-type: none"><li>• How much support for participation is offered?</li><li>• Is knowledge transferability planned?</li><li>• Is there any social contact involved?</li><li>• Is everything contained within the course platform or are other platforms available?</li></ul>
Course Materials	<ul style="list-style-type: none"><li>• Is there a range of media used?</li><li>• How much participation is required from learners?</li><li>• Are learners expected to generate additional materials?</li></ul>
Assessment	<ul style="list-style-type: none"><li>• Is there any peer grading assessment?</li><li>• Is transferability promoted and assessed?</li><li>• Is there a mixed of formative and summative assessment?</li></ul>

# Conclusion





**THANK YOU**