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World megatrends and education: developing learning environments using digital technology

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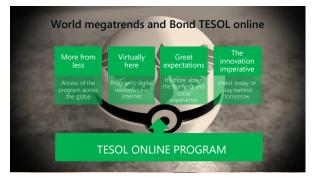






World megatrends and online education









What is TESOL at Bond University, Gold Coast, Australia?



8



What is 'distance education'? What is 'online education'?

10





Schools of the Air Nearly twenty Schools of the Air covering 1.5mln square

kilometers Digital age: virtual classrooms in real time



9

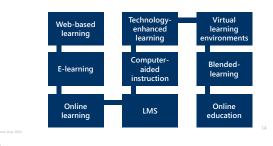
Distance education: from 'the package'....to online education

Taylor (2001) five distance education generations:

- 1. Correspondence model, based on print technology
- 2. Multi-media model, based on print, audio, and video
- 3. Tele-learning model, using telecommunications to provide synchronous communication
- 4. Flexible learning model based on Internet delivery
- 5. Intelligent, flexible learning model based on the interactivity of the Internet

(Siemers, 2015) 13

Proliferation of terms



14

Distance and online: what's the difference?

.

Distance education:

- teaching and
- planned learning teaching occurs in a different place
- from learning, requiring communication through technologies and special institutional organization

Online learning: A form of distance education

- where technology mediates the learning
 - process, teaching is delivered completely using the
 - internet, and students and instructors are not required
 - to be available at the same time and place

15

How I see it: DEFINITION of online education

- A form of distance education
- . where technology mediates the learning process,
- . Learning is flexible
- . Flexible teaching is delivered completely using the internet,
- Flexible resources are developed through the collaboration between content, pedagogy, design and technology
- Flexible learning occurs both synchronously and asynchronously
- . Flexible learning involves all forms of interaction
- Students and instructors are required to be available at the same time and place at least some parts of the course . .
- Virtual face-to-face!

15

In online education

- Alicia (Vallero, 2017; personal comment):
- Distance is a different concept Learning in synchronous and
 - We are back in the classroom then?
- Asynchronous environments
 - More learner-centred (anytime, anywhere,
 - any way)
 - Flexible resources
 - Virtual face-to-face

Pedagogy versus Technology: The Great Media Debate

- Does media influence learning?
- Is pedagogy all that counts?
- Pedagogy and technology debate
- Need for collaboration between approaches to pedagogies and technologies
- We however found more principal factors.....

18



Building a learning environment:

- Organic holistic concept that embraces
- the learning taking place
- the setting: eco-system of learning that includes the activity and outcomes of learning
- The Learner:
 Experience/s
- Expectations
- Culture & values
- (http://www.keepeek.com/Digital-Asset-Management/cecd/education/impretive-lear environments_9789264203488-en#V6it/t195M8#page25; De Corte, 2010)

20

19

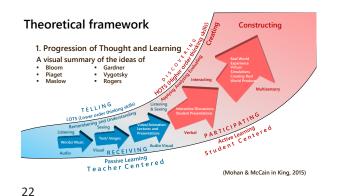
How to build the online environment?

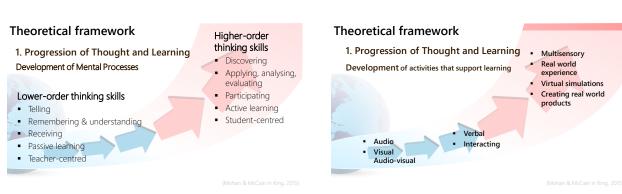
Theoretical framework: pedagogy

- Progression of thought and learning
- 2. Make it visual!
- 3. 'How do I know if I'm learning?': Gamify it!
- 4. The ADDIE Model

Practical building blocks

- Learning Management System
- Asynchronous learning environment
 Synchronous learning environment
- . synchronous learning environment







2. Make it visual!



3. Gamify it!

- Danny: How do I know if I'm learning? Distraction! 'Not just the young ones' • anymore.
- Zichermann: the gamification revolution
- Generation brought up on games Dopamine: a quick blood rush to the . brain
- Learning: (instant) feedback, friends, fun

26



26

28

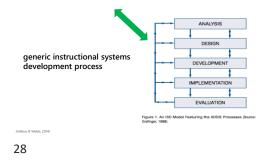
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BOND UNIVERSITY Gamification and the new learner



27

4. Design of an Online Course: the ITERATIVE version of the ADDIE Model



The framework elements we used

Theoretical principles: Progression of thought and learning

ADDIE: do it and...re-do it!

Visual

3 Gamified

What do we do now? Building a learning environment

Building a Learning Management System

A learning management system (LMS) is a software application for

- supporting online, blended or face-to-face learning · delivery of digital subject/program content,
- the administration, documentation,
- tracking, reporting and
- Blackboard, Moodle, WebCT, Canvas, MOOC platforms.

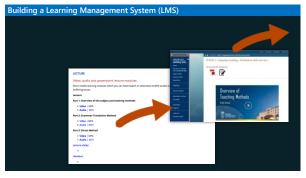
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There is a LOT to choose from











Resources we are developing: a mixed bag



42

2. Asynchronous resources

37



2. Asynchronous resources

Video recordings: evolution in technology and design: from Camtasia to Office Mix



38



2. Asynchronous resources

2. Pre-recorded content: What's Office Mix?

- Addressing learner engagement:
- Length of the video: how long do you think?

40

2. Asynchronous resources

Length of the video

- Addressing learner engagement:
- MOOCS mega-data (6.9mln viewers)
 Length of the video: optimal 6min
- Length of the video: optimal 6minIf longer than 9min, they don't finish watching it
- 3min: strongest engagement!
- Other studies: no longer than 10 min
- Many factors come to play

2. Asynchronous resources

Pre-recorded content: What's Office Mix?

- Addressing learner engagement:
- Length of the video: how long do you think?
- Re-organisation of the content
- Camtasia was superseded in 2015 by the Office Mix, Add-on to PowerPoint 2013
 and later
- Ease of use, very flexible, high selectivity, high interactivity, opportunity for learner-centredness

Guo, Kim, Rubin in Webb, Vallero, King, Hunter, 2015)

Both: Asynchronous and synchronous resources Un-death by PowerPoint: (r)evolution in design: templates



43

Both: Asynchronous and synchronous resources Un-death by PowerPoint: (r)evolution in design: templates



44

Both: asynchronous and synchronous resources

Un-death by PowerPoint: templates

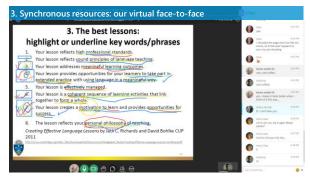


Both: asynchronous and synchronous resources Un-death by PowerPoint:

(r)evolution in design: templates



46



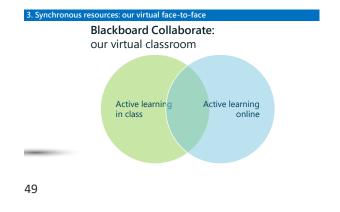
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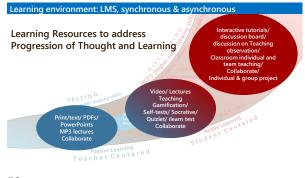
3. Synchronous environment

Blackboard Collaborate

From Classic
 To ULTRA

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-	3. The best lessons:		9	200	
highlight or underline key words/phrases			0	ters relations paid and a score control long tool particular mining	
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Ideally then, online education will mean



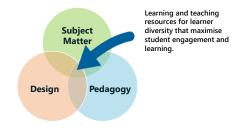
- Well-designed courses Interactive & engaging content
- Structured collaboration
- between peers Flexible deadlines to allow students to pace their
- learning Continuous monitoring of student progress
- The provision of formative feedback when needed

What to do to improve the learning experience: research overview

- Good support for student-student & student-content interactions (more in online...part of a team)
- Co-operative & collaborative learning
- Fostering interactions via structured online discussions
- · Instructor's moderating role in guided discussions important
- Timely feedback
- Instructional scaffolds according to student needs
- Content should be visually engaging and interactive

51

Mission accomplished (so far...)



Breaking the myths on online learning: unicorns



When do I get my package?

- Students are isolated Teaching is robot-like 3.
- 4. Technology gaps make it hard for students
- Younger students have better digital skills
- 6. Online courses are all the same
- Cost of training instructors is very high 7
- 8. 9. You have to be online all the time Students don't have to work so hard: your degree is just a click away

Students' perspective: YOU NEED A TEAM! Well-designed frequently updated courses With motivating factors: tasks/examples relevant to practice Reasonable level of control and flexibility Support to collaborate with peers High level of instructor involvement &



56

55

What makes great teaching?

Great teaching!!!	Traditional classroom	Virtual classroom
Pedagogical content knowledge	YES!	YES!
Quality of instruction	YES!	YES!
Classroom climate	YES!	YES!
Classroom management	YES!	YES!
Teacher beliefs	YES!	YES!
Professional behaviours	YES!	YES!

57

5 tips from Pokemon Go!



- It's digital, game-based, social AND viral AND...amazing
- 2. It's seriously sticky with incremental rewards and levels
- 3. It's easy!
- 4. Set 'em up, and let 'em go.
- 5. It's a real treasure hunt
- 6. It had some near-misses!

58



The greatest surprise of all:



It's personal!

- It's just as hard or harder than face-to-face...
- But you are part of a very strong community
- Success is a few clicks away ⁽ⁱ⁾



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