CONFERENCE ON Enhancing Student Learning Experience

Outcome-Based Learning Design for Enhancing Total Student Experiences in the Digital Era

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Introduction

Blended Learning has become a popular practice in education sector during the past decade

It provides flexible and convenient benefits to students
(e.g. accessing to the learning materials anytime & anywhere)

Technological advancement provides additional means to engage students (e.g. smartphone, Skype and social media like Facebook (with fb messenger), WhatsApp, Instagram, Twitter, LinkedIn, YouTube, Snapchat, & Line)

Technology facilitates and enriches student-centered learning experiences such as flipped-classroom, MOOCs (Massive Open Online Courses).

Objective & Method (case study approach)

Objective:

Attempts to **explore the development of blended learning (BL)** in both Australia and Hong Kong through **multiple real-life cases**.

An **"OBE RASE" Learning Design Model** (Fox, 2015) - **enhancing learning experiences and teaching quality** especially open & blended learning

Method (case study (Yin 1984))

-A longitudinal approach to observe and record BL at the micro level

Cases from Australia and Hong Kong -illustrate changes and lessons learnt at different stages of BL with adoption of technology

Literature Review – Some Highlights

Blended learning (BL) with embedded technology has become more popular in higher education and with increased focus on personalized, student needs (Gaeta, Orciuoli & Ritrovato 2009)

Further growth of technology-based BL is limited due to low digital literacy skills of academics and limited institutional support

In addition to student-centered practices, academics play a key role in learning design with usage of information technology for engaging students and facilitating deep learning (Biggs, 2014)

"OBE RASE" Learning Design Model – based on the extending the "RASE" (Churchill, King & Fox, 2013)) *An integrated, aligned curriculum learning design model

An effective learning experience design can engage and create memorable educational experiences → enriching total student learning experiences.

Case Study : Australia & Hong Kong

1) Distance Course Re-engineered for Blended On-campus Delivery to 750 students p.a. (Australia) 1988-90 (P/T mode \rightarrow P/T + F/T modes)

Practicing nurses in rural/regional Western Australia – upgrade diploma to degree - weekly videos (lab equip. experiments & demos, etc.) broadcast on regional TV
activity-led print-based study guides, weekly tasks, readings and resources
Lesson learnt – (Key factor for success) with support from leaders (Dean) quality BL
courses can be successfully & sustainably re-purposed to meet needs of large numbers of students

2) Civil Engineering First Year Course Converted Using Personalized System of Instruction (PSI) (Australia) * Core course 120-250 students – 1988

- Problem/activity-led printed study guides ("STEM" subjects)
- on-campus students 'buy-at-cost' study guides from bookshop
- 'Lectures' became small group & individual tutorials (i.e. No lecture for students)
- Advanced students complete activities early in own time, then focus on other courses

-Lessons learnt – without faculty buy-in, individual teacher isolated and their efforts ultimately fail (after 5 years' successfully experiences)

Case Study: Australia & Hong Kong

3) Sociology (*1990s – downward trend in student numbers across all programs in School of Sociology (Australia)

-Threat of **merger or closure** led to review and find solution:

-Programs review

-Distance education methodology for both on- and off-campus students

-Shared resources, shared classes (i.e. same lecture but with different tutorials) Lesson learnt- necessity is the mother of invention

4) Marketing course (Hong Kong) – student with diverse needs

- Facebook to supplement Moodle
- online material and YouTube videos to facilitate student learning
- traditional face-to-face consultation, email, eForum and smartphone are adopted as communication channels with students

- student-centered and peer sharing activities (in-class and online)
Lesson learnt – flexibility and sustainably (keep it simple)

An "OBE RASE" Evidence-based Learning Design Model



What is "RASE"?

The figure below is a visual summary of the RASE pedagogical model.



Figure 1: RASE pedagogical model

Source: Churchill, D., King, M., Webster, B., & Fox, B. (2013). Integrating Learning Design, Interactivity, and Technology. In M. Gosper, J. Hedberg, H. Carter (Eds.) Electric Dreams. Proceedings ascilite Sydney 2013. http://www.ascilite.org/conferences/sydney13/program/papers/Churchill.pdf

An "OBE RASE" Evidence-based Learning Design Model

Program Learning Outcomes (PLOs) - knowledge, skills and applications that students are expected to demonstrate in completing a program of study.

Course Learning Outcomes (CLOs) prescribe the knowledge, skills and applications that students are expected to demonstrate in completing a specific course.

Learner Needs are the individual students' needs catered for to ensure their greatest possible engagement in learning.

Course Components are the combination of resources, activities, support and feedback/evaluation (formative assessments) required for full achievement of course learning outcomes.

Assessments measure actual learning outcomes. Assessment methods can be formative or summative.

Measuring Actual Learning Outcomes ensures that the student can demonstrate they have attained the intended learning outcomes of the course and program.

Conclusions

Student-centered & Evidence-based:

Curriculum design/development, teaching & research

Sustainability: requires student/teacher/faculty/institution all work together for supporting student learning

Technology: only a tool to facilitate teaching and learning activities

Be Open/Creative: Trialling new teaching and learning practices

Senior management commitments and clear direction for supporting blended learning are important

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Thank You