Interactive BYOD Sessions with Moodle during Lectures at Paris Descartes University

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Paris Descartes University key figures

- Multidisciplinary university
  - Spread over 9 colleges and 1 institute of technology

- 38,000 students
  - 200 PhD granted each year

- 4,000 members
  - Faculties, researchers, staff

- 1,300 researchers
  - 82 research labs
Abstract

- This presentation investigates a Paris Descartes University initiative to develop BYOD program into the learning and teaching process.

- The idea behind this BYOD strategy is that students use their Wi-Fi connected personal devices to answer Moodle quizzes during lectures, allowing teachers to collect and display active feedbacks within minutes.

Authors

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- Xavier Coumoul, Biomedical Sciences Professor
- Sonia Badeau-Mahmoud, Pedagogical Engineer
Paris Descartes University aims high to promote and integrate ICT in learning and teaching.

We notice that the number of students' personal mobile devices increases in higher education context; this assumption confirms that these devices will be used to complement learning activities.

One strategy is to implement BYOD (Bring Your Own Device) programs. BYOD refers to “[…] technology models where students bring a personally owned device to [university] for the purpose of learning.” (Alberta Education. (2012). Bring your own device: a guide for schools. Edmonton: Alberta Education.)

Using BYOD is an innovative way to create and animate interactive lectures.

This presentation will present uses at Paris Descartes University since 2012 and will show how BYOD can enhance and impact students’ motivation.

The LMS Moodle was not only used as a platform but also as an authoring tool to:

- create question banks;
- allow student to real-time respond to the questions;
- allow both teachers and students to see results live during the lecture.

A « Moodle Remote Control » has been developed in our department to ease the way the teachers toggle from their slideshow to quizzes results. The students will also soon get the same « virtual voting device ».

Teachers and instructional designers (AKA pedagogical engineers) are thus able to design interactive and engaging lessons and projects, in a sole place and with the same tool.

We are convinced that the devices that students embed in their daily life may change education; the experiments and their generalization show us that linking BYOD use in an instructional situation can improve student comprehension, learning and motivation.
Needs and Actions

• Challenging the students at key moments to catch their attention

• The students are passive if they are only asked to answer with their hands up

• The students have to use their own digital devices to answer

• The teachers show the results interactively

• BYOD (Bring Your Own Device) + LMS Moodle: no need to use voting devices
Pedagogical Objectives

- to revive students’ attention;
- to enhance students’ motivation;
- to introduce an exchange within the traditional lecture;
- to compare his point of view with his peers;
- to manage "questions after debate";
- to give an immediate feedback to the students.
Interactives Lectures: Teacher’s Questions

Credits: Prof. Xavier Coumoul - College of Biomedical Sciences
Moodle Screenshots
Theater and Classroom

Credit: T Koscielniak

Credit: T Koscielniak
The Moodle Remote Control

Q1
URL pour BYOD: http://moodle-admin-qualif.parisdescartes.fr/BYOD/?sectionid=2734

 Parmi ces légumes, lesquels sont des fruits

☐ Pomme de terre
☐ Carotte
☐ Tomate
☐ Potiron
☐ Choux fleur
☐ Courgette
The Moodle Remote Control

A new development: the student’s remote control
A virtual voting device
BYOD is widespread

- BYOD for increasing motivation and attention
  - College of Biomedical Sciences
  - College of Medicine
  - College of Law
  - College of Pharmacy
  - College of Mathematical Engineering
  - College of Humanities
A team work

- Xavier Coumoul  Professor in Biomedical Sciences
- Sonia Badeau-Mahmoud
- Ludivine Alvarez
- Antoinette Bouziane
- Jennifer Carmichael
- Marion Harent
- Frédéric Romero:  Pedagogical Engineers
- Bruno Bouret
- Yann Sallou  Moodle Remote Control Developpers
The pedagogical team

Teaching with digital tools is like making a movie: you need a strong technical team.

http://upload.wikimedia.org/wikipedia/commons/a/a9/Television_crew_shooting_a_movie_during_turtle_nest_excavation_and_relocation.jpg
Par Maxfield Barbara, U.S. Fish and Wildlife Service [Public domain], via Wikimedia Commons
Let’s keep in touch

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