

# What our learning platforms know about the activity of our students

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# Outline

1. Introduction
2. Main Goal
3. Case Study
4. Results
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# 1. Introduction

- Most universities have incorporated Learning Management Systems (LMS) to support face-to-face teaching models.
- Additionally, specific tools and services have been made available to instructors, in order to facilitate their teaching tasks.

# 1. Introduction

For example, in the Univ. Politècnica de València:

- *Polimedias*: a service to record and produce educational videos
- *VideoApuntes*: a service which makes possible the automatic video recording of lectures
- *Alce*: a specific web tool to generate templates for multiple choice quizzes and the automatic review

## 2. Main Goal

To use data captured by the institutional LMS:

- to know what is actually happening
- to help instructors to tailor appropriate responses

## 3. Case Study

**Computer Technology** (CT), a compulsory first-year course belonging to the Bachelor's Degree in Informatics Eng.

- 6 ECTS
- about 500 students
- 10 groups
- 10 instructors
- all the educational resources are posted in the course site

## 3. Case Study

- The *Statistics* tool offered by Poliformat (Sakai-based) has been used.
- Specific **reports** can be designed to obtain access data to:
  - a particular resource (**what**)
  - during a selected time period (**when**)
  - for a group of students (**who**)

# 3. Case Study

 **Report** Specify report title and description (required when saving/editing the report). [Show](#)

 **What?** Select activity to report.

**Activity:** Resources

**Selection:**  Limit to action: New

Limit to resources:

- Resources
  - Material Adicional
  - Exámenes cursos anteriores
  - English
  - Exámenes del curso
  - Objetos de Aprendizaje Polimedia
    - Generador de Funciones
    - Osciloscopio
    - Sonda del Osciloscopio
    - Polarizacion del Transistor Bipolar
    - Puesto de trabajo de laboratorio de

 **When?** Select time period to report.

**Period:** Last 30 days

 **Who?** Select users to report.

**Users:** Group

**Group:** TA-1D

*Statistics* tool: defining a new report in *PoliformaT*

## 4. Results

Different reports were created to analyse accesses to the educational resources related to the first course test:

- 2 out of 53 students taking the test had previously accessed the educational video on the topic under assessment
- 66% had previously accessed the document containing the solutions to the proposed exercises for that unit (only 40% passed that test).

## 4. Results

10 days after posting the **test detailed solutions document**, it can be noticed from the reports that:

- Only 52% accessed the resource. Moreover, only 56% of the students failing the test accessed it.
- Only 38% of students taking the test, accessed to the reviewed test in their drop box:
  - 55% had passed the test
  - only 28% of students failing the test accessed it

# 4. Results



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Apellidos .....

Nombre .....

Marque así  Así NO marque

NO BORRAR, corregir con Typex.

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*Alce* tool: reviewed test

## 4. Results

What about educational resources to reinforce critical concepts?

What about formative assessment planned by instructors?

Are we wasting our time?

## 5. Conclusions

- This preliminary work has shown the affordances of the *Statistics* tool offered by our LMS.
  - how specific reports could be created to analyse what resources were accessed, when and by whom.
- Data collected could be used to know the online activity of the students and somehow, their attitudes in a quite objective manner.
- By combining this information with academic performance, good resource usage patterns could be generated.



# Thanks for your attention

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