



Unattended lecture recording: the VIDEOAPUNTES Project

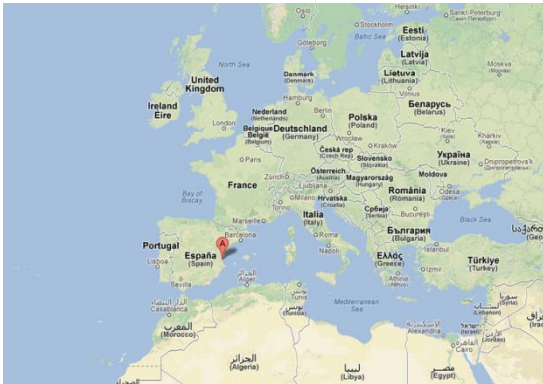
Universitat Politècnica de València
Carlos Turró, Jaime Busquets



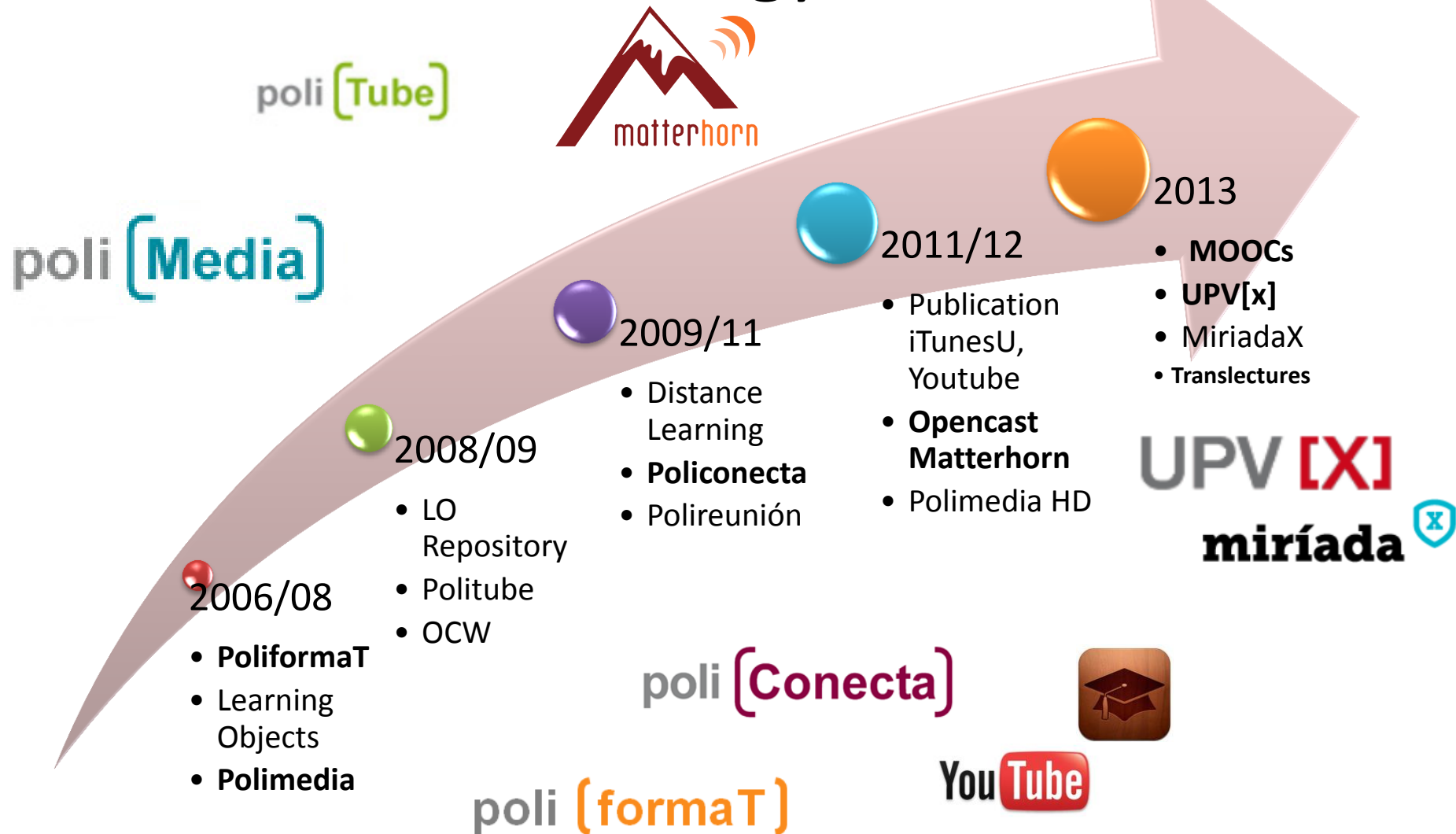
Some words about UPV



- Located in Valencia (Spain)
- 40,000 students
- 35 degrees in 13 faculties
- Mostly technical studies:
 - Engineering
 - Architecture
 - Business
 - Arts



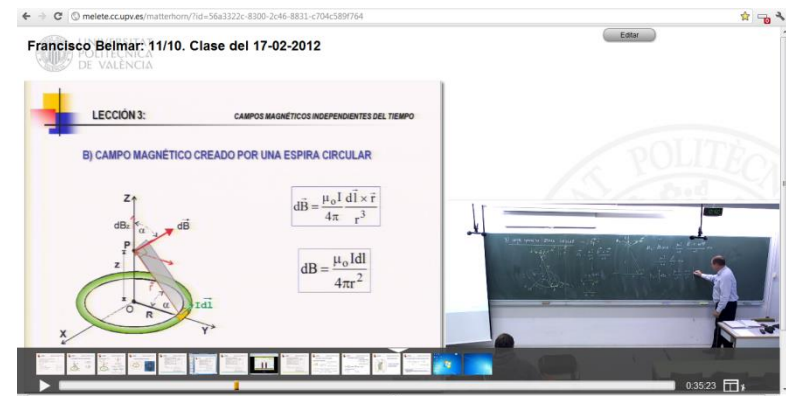
Educational technology evolution in UPV



Videoapuntes 2012-2013

- Live lecture recording
- Our use case is to replace note taking
- 100 % unattended
- Just for our students
- Example:

<http://videoapuntes.upv.es:8080/engage/ui/watch.html?id=fdb9ab05-9344-4d63-ae11-904cac90e156>



The screenshot shows a web browser window displaying a video lecture. The browser address bar shows the URL: `melete.cc.upv.es/materia/homr/idi=56a3322c-8300-2c46-8831-c704c589764`. The page title is "Francisco Belmar: 11/10. Clase del 17-02-2012". The main content is a slide titled "LECCIÓN 3: CAMPOS MAGNÉTICOS INDEPENDIENTES DEL TIEMPO" and "B) CAMPO MAGNÉTICO CREADO POR UNA ESPIRA CIRCULAR". The slide includes a diagram of a circular current loop in the xy-plane with radius R, carrying current I. A point P is shown at a distance r from the center, with a vector r from the center to P. The diagram also shows a differential current element Idl and the differential magnetic field dB. The equations shown are
$$d\vec{B} = \frac{\mu_0 I}{4\pi r^3} d\vec{l} \times \vec{r}$$
 and
$$dB = \frac{\mu_0 I dl}{4\pi r^2}$$
. To the right of the slide is a live video feed of a lecturer standing in front of a chalkboard. The video player interface at the bottom shows a progress bar at 0:39:23.

Opencast project



Cambridge University



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

ETH Zurich



Fluid



INDIANA UNIVERSITY

Indiana University



NORTHWESTERN
UNIVERSITY

Northwestern University



UNIVERSITAT
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DE VALÈNCIA



University of California Berkeley



UNIVERSITY OF COPENHAGEN

University of Copenhagen



University of Nebraska-Lincoln



University of Osnabrueck



UNIVERSITY OF
SASKATCHEWAN

University of Saskatchewan



University of Vigo



EXCHANGE IDEAS / SHARE KNOWLEDGE

Videlectures.net

Processing Flow



Production



Processing



Publication

LECTURE HALLS









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Recording workflow

- Teacher asks to be recorded (We want that to be made with a Sakai tool)
- We load the recording data into Matterhorn (semi-automatic process)
- Recording starts & stops automatically
- Teacher has a time to decide if that recording shall be available to his students
- Recordings are delivered through Sakai using LTI

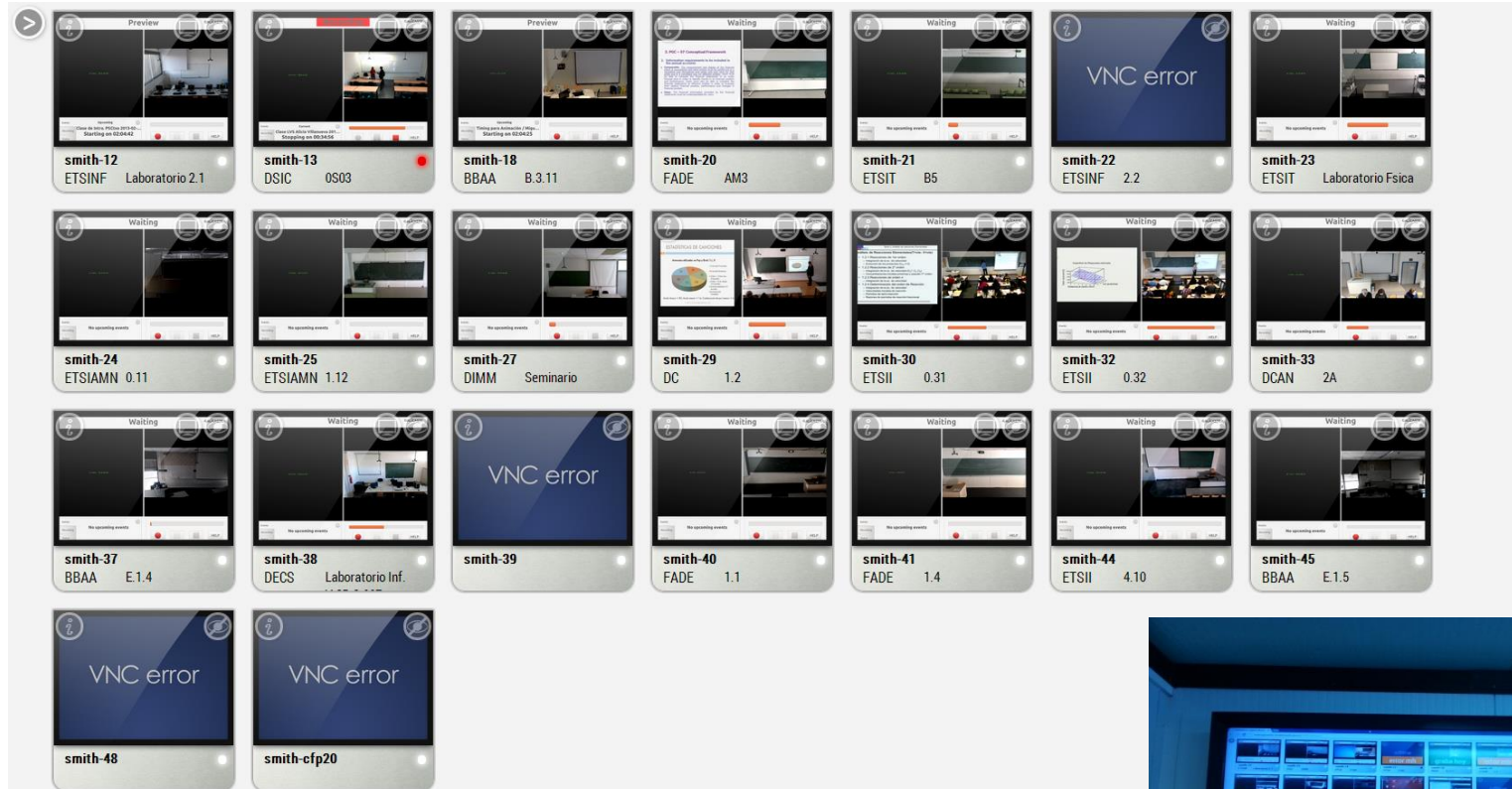
Recording Plan

The screenshot displays the Microsoft Outlook calendar interface. The ribbon at the top includes tabs for 'Archivo', 'Inicio', 'Enviar y recibir', 'Carpeta', and 'Vista'. The 'Inicio' tab is active, showing options like 'Nueva cita', 'Nueva reunión', 'Nuevos elementos', 'Hoy', 'Sigüientes 7 días', 'Día', 'Semana laboral', 'Semana', 'Mes', 'Vista Programación', 'Abrir calendario', 'Grupos de calendarios', 'Calendario de correo electrónico', 'Compartir calendario', 'Publicar en línea', and 'Permisos de calendario'. A search bar for contacts is also visible.

The main calendar view shows the dates 26-30 de noviembre de 2012. The days are color-coded: 26 (lunes) is green, 27 (martes) is yellow, 28 (miércoles) is green, 29 (jueves) is green, and 30 (viernes) is green. The time slots range from 5:00 to 23:00. Various recording sessions are scheduled, each represented by a green box with a name and a recording ID. For example, on Monday (26), there is a session for 'José María Bravo' (GRA_12399_2012) from 10:00 to 11:00. On Tuesday (27), there are sessions for 'Francisco Cervete' (Teleco) and 'Sergio Marí Vidal' (GRA_11746, FADE AM3) from 12:00 to 13:00. On Wednesday (28), there are sessions for 'Francisco Cervete' (Teleco) and 'Francisco Cervete' (Teleco Lab. Física) from 12:00 to 13:00. On Thursday (29), there are sessions for 'Cristina Jordán' (GRA_11547_2012, Informática 2.2) from 12:00 to 13:00 and 'Raúl González' (CFP_309_5622, BBAA B.3.11) from 16:00 to 17:00. On Friday (30), there are sessions for 'Cristina Jordán' (GRA_11547_2012, Informática 2.2) from 12:00 to 13:00 and 'Vicente Amigó Borrás' (GRA_12939_2012, ESTII 4.10) from 16:00 to 17:00.

At the bottom of the calendar view, a status bar indicates: 'Tareas: 90 tareas activas, 0 tareas completadas'.

Monitoring

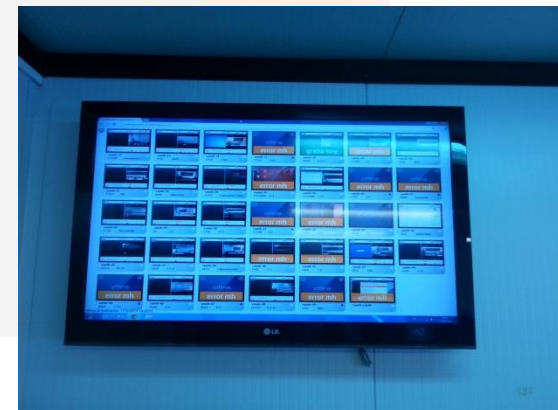


1 agente grabando

Última actualización: 2013-02-08T12:55:01Z



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Sakai LTI integration

← → ↻ https://poliformat.upv.es/portal/site/VIDEOAPUNTES/page/cfdebbc7-af3f-4afa-9128-9424fee83eb9

UNIVERSITAT POLITÈCNICA DE VALÈNCIA poli(formaT) Salir

Mi PoliformaT Zona de Ayuda **Videoapuntes** Mis sitios activos

Basic LTI

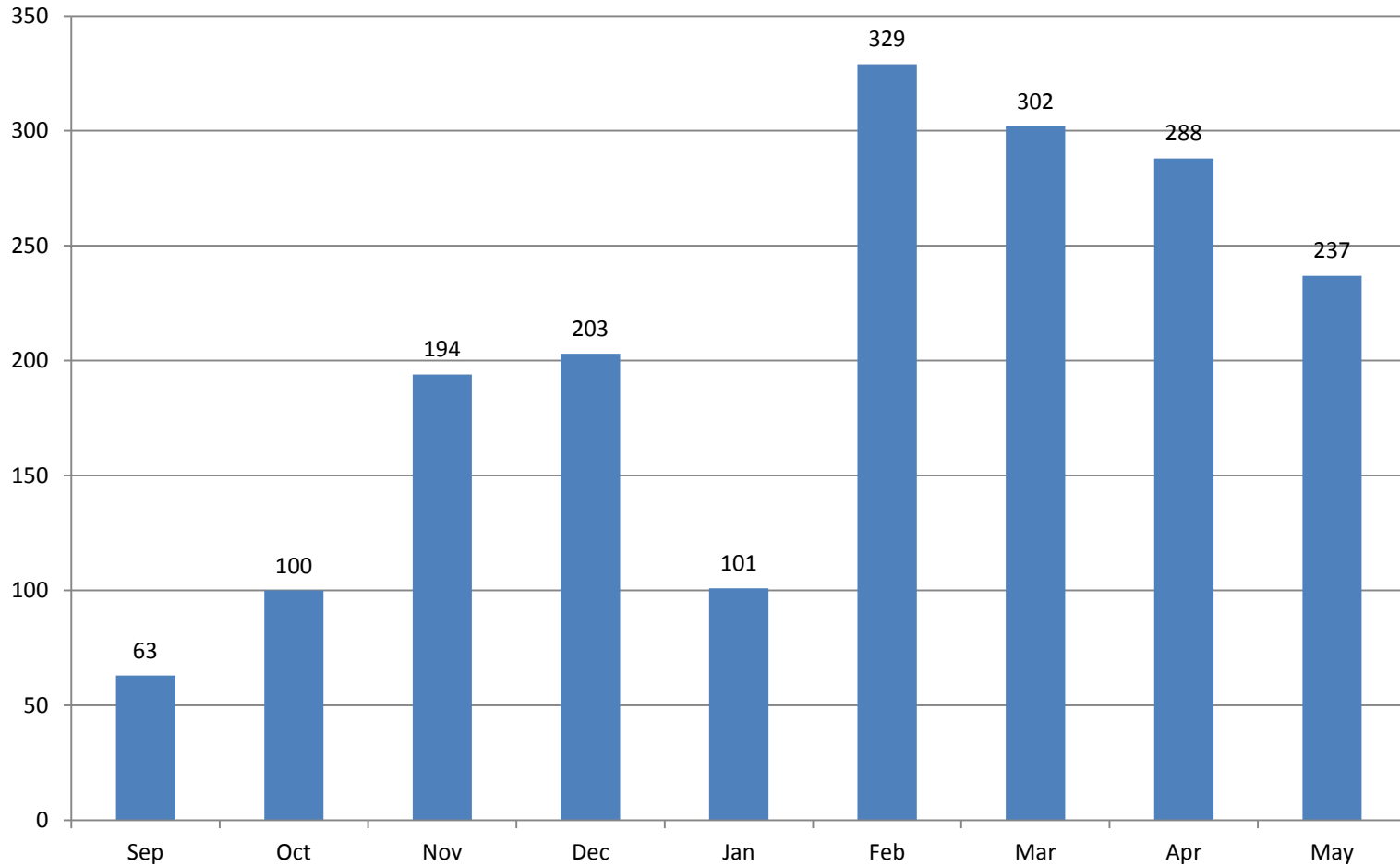
Sitio No Publicado Configuración Videoapuntes

Francisco Belmar 2012-12-26 10:15
by *Francisco Belmar*
26/12/2012 10:15:00

José María Bravo 2012-12-05 10:15
by *José María Bravo*
5/12/2012 11:15:00

Francisco Cervera 2012-12-05 12:20
by *Francisco Cervera*
5/12/2012 12:20:00

>1800 Hours Recorded



Paella Player

- We contribute to the Opencast Community by developing a new player
- HTML5 + Javascript multistream video player
- Easy development, adjust easily to your needs
- Integrated editor (soft Trimming)
- Integrated publishing, so the teachers validate their recordings
- <http://paellaengage.upv.es>

Editing with Paella

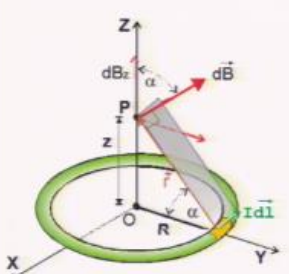
melete.cc.upv.es/matterhorn/?id=56a3322c-8300-2c46-8831-c704c589f764

Francisco Belmar: 11/10. Clase del 17-02-2012

UNIVERSITAT POLITÈCNICA DE VALÈNCIA

LECCIÓN 3: CAMPOS MAGNÉTICOS INDEPENDIENTES DEL TIEMPO

B) CAMPO MAGNÉTICO CREADO POR UNA ESPIRA CIRCULAR

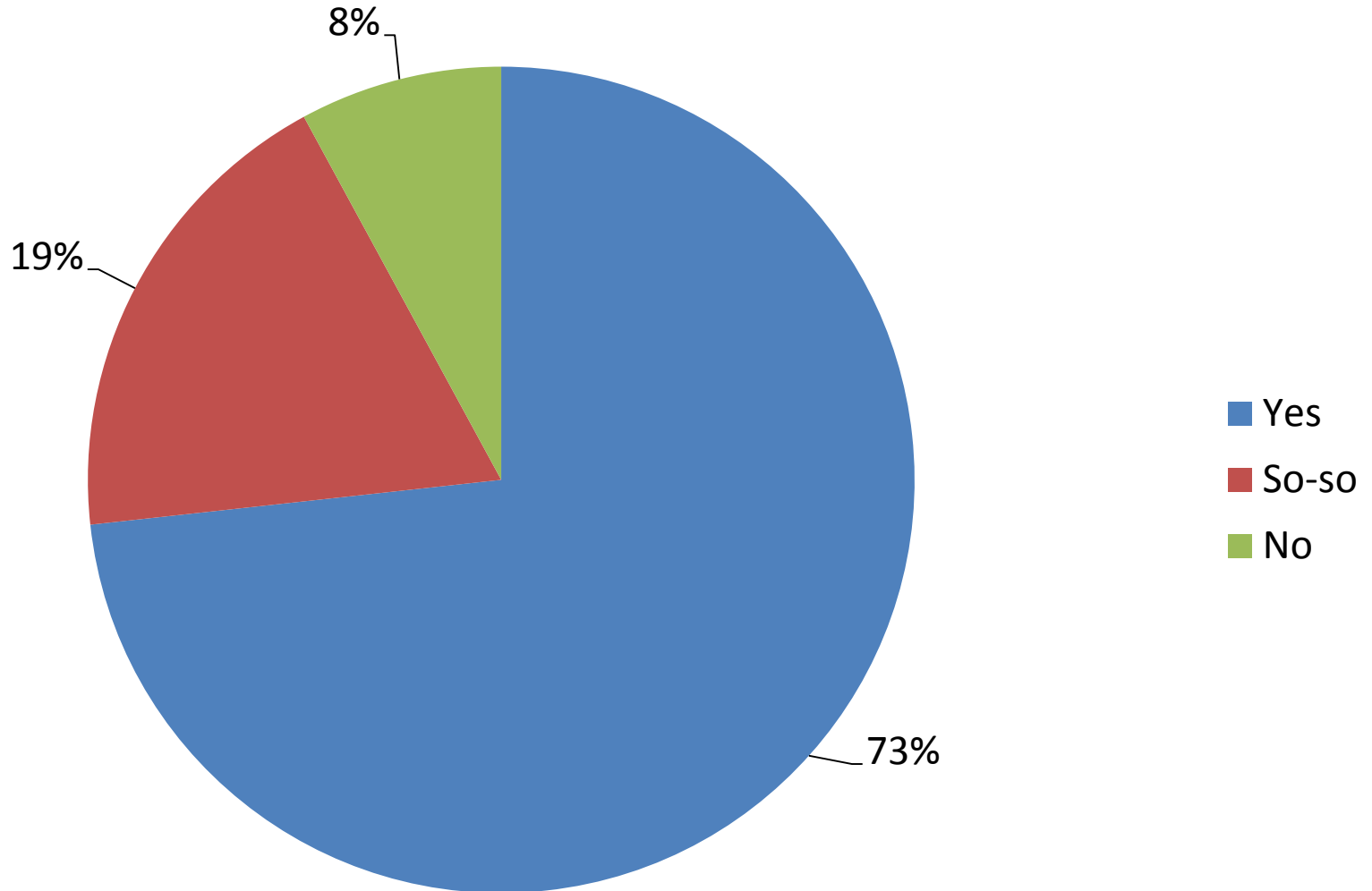

$$d\vec{B} = \frac{\mu_0 I}{4\pi r^3} d\vec{l} \times \vec{r}$$
$$dB = \frac{\mu_0 I dl}{4\pi r^2}$$

0:35:23

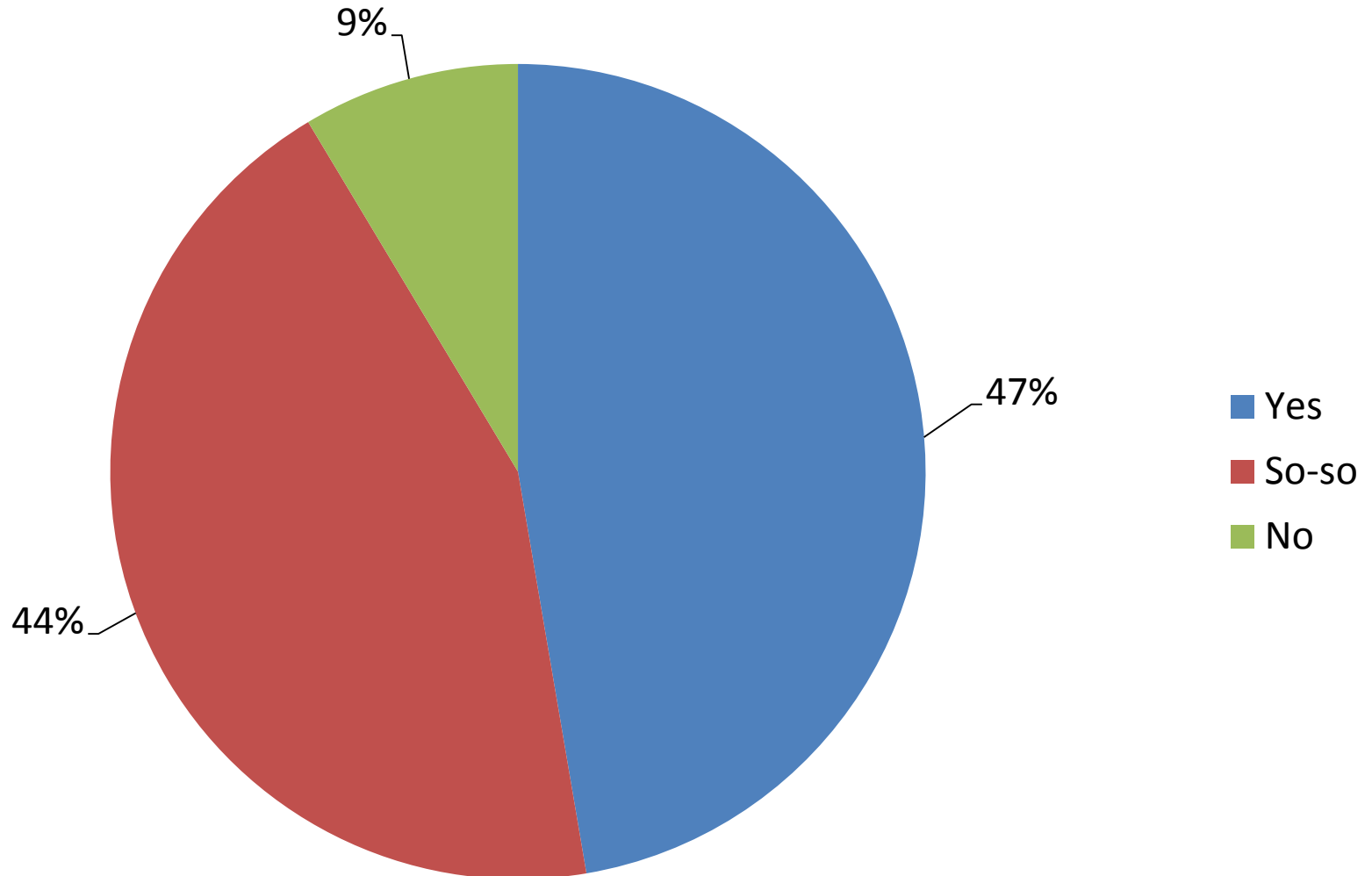
<http://videoapuntes.upv.es:8080/engage/ui/watch.html?id=fdb9ab05-9344-4d63-ae11-904cac90e156>

A SURVEY WITH OUR STUDENTS

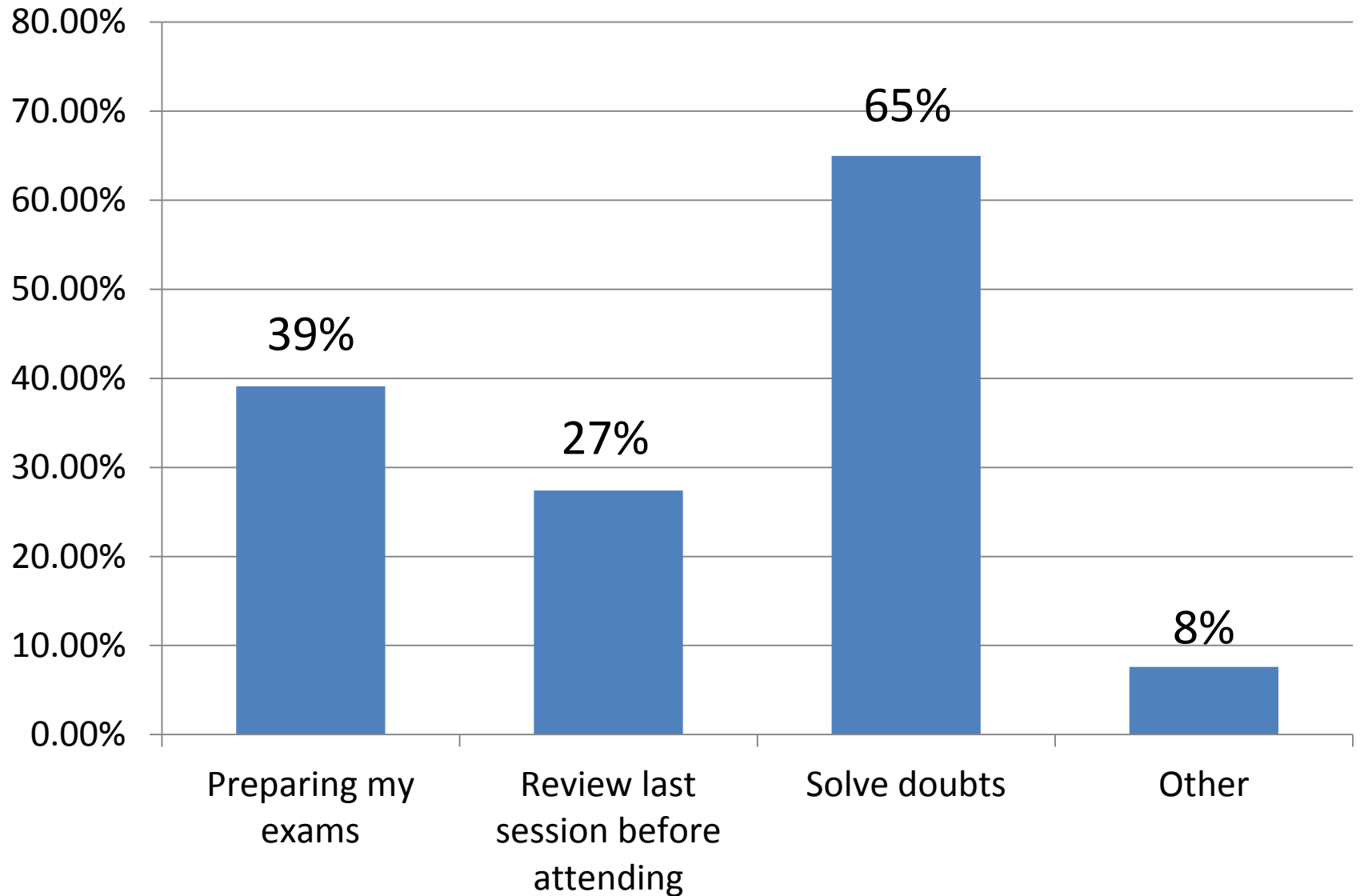
I have found Videoapuntes' recordings useful for LEARNING



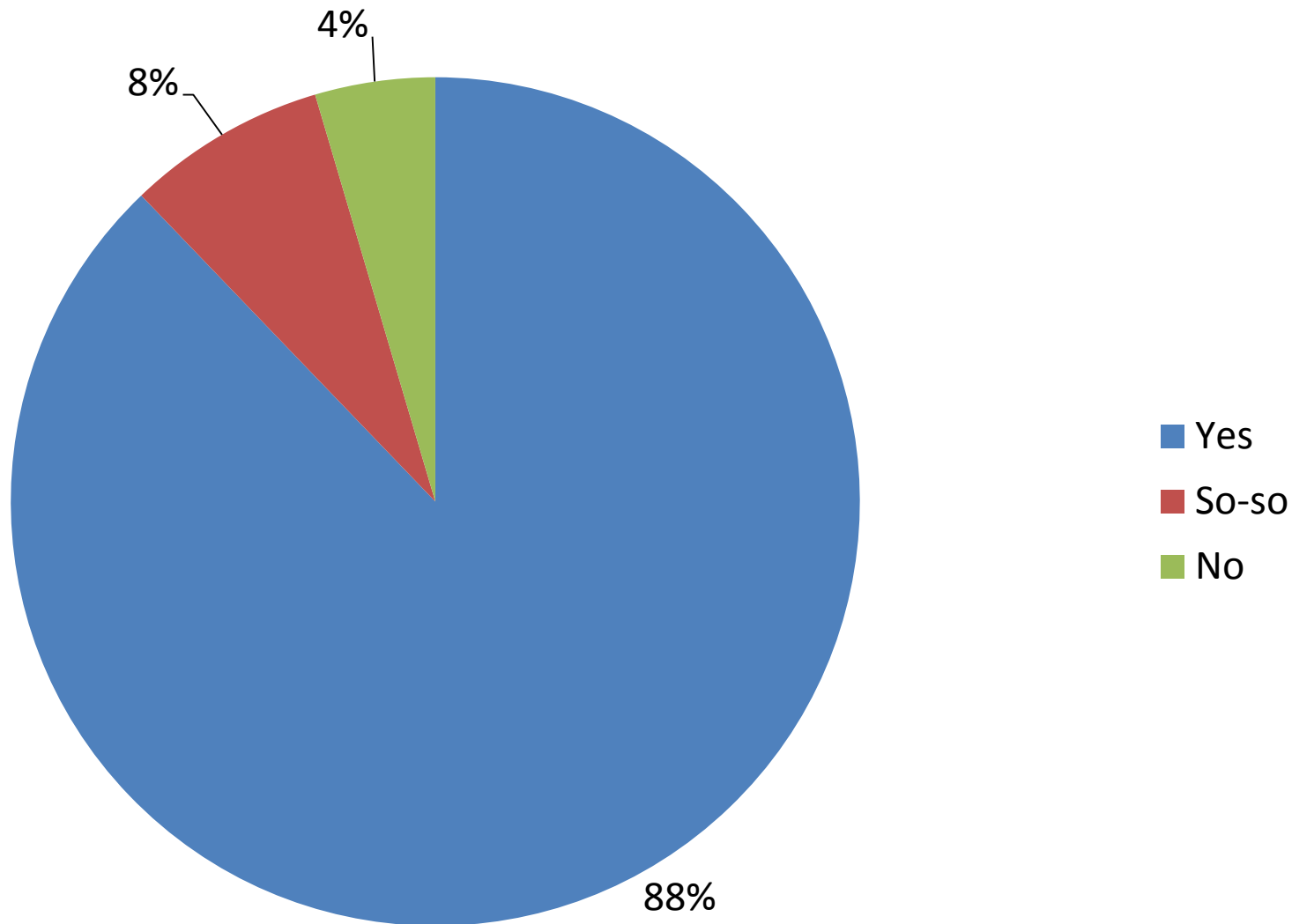
I have found Videoapuntes' recordings useful for PASSING



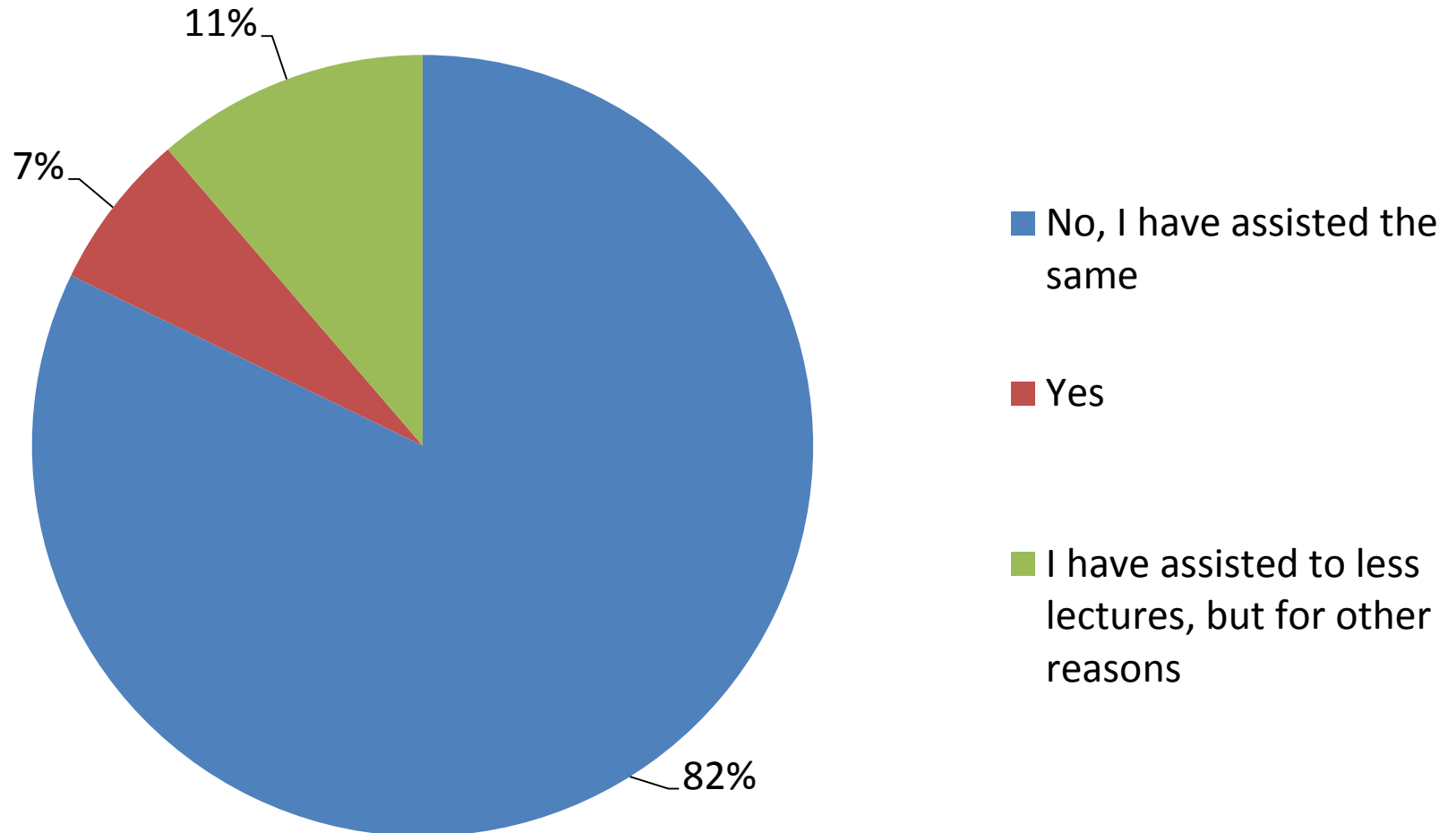
I have used videoapuntes for ...



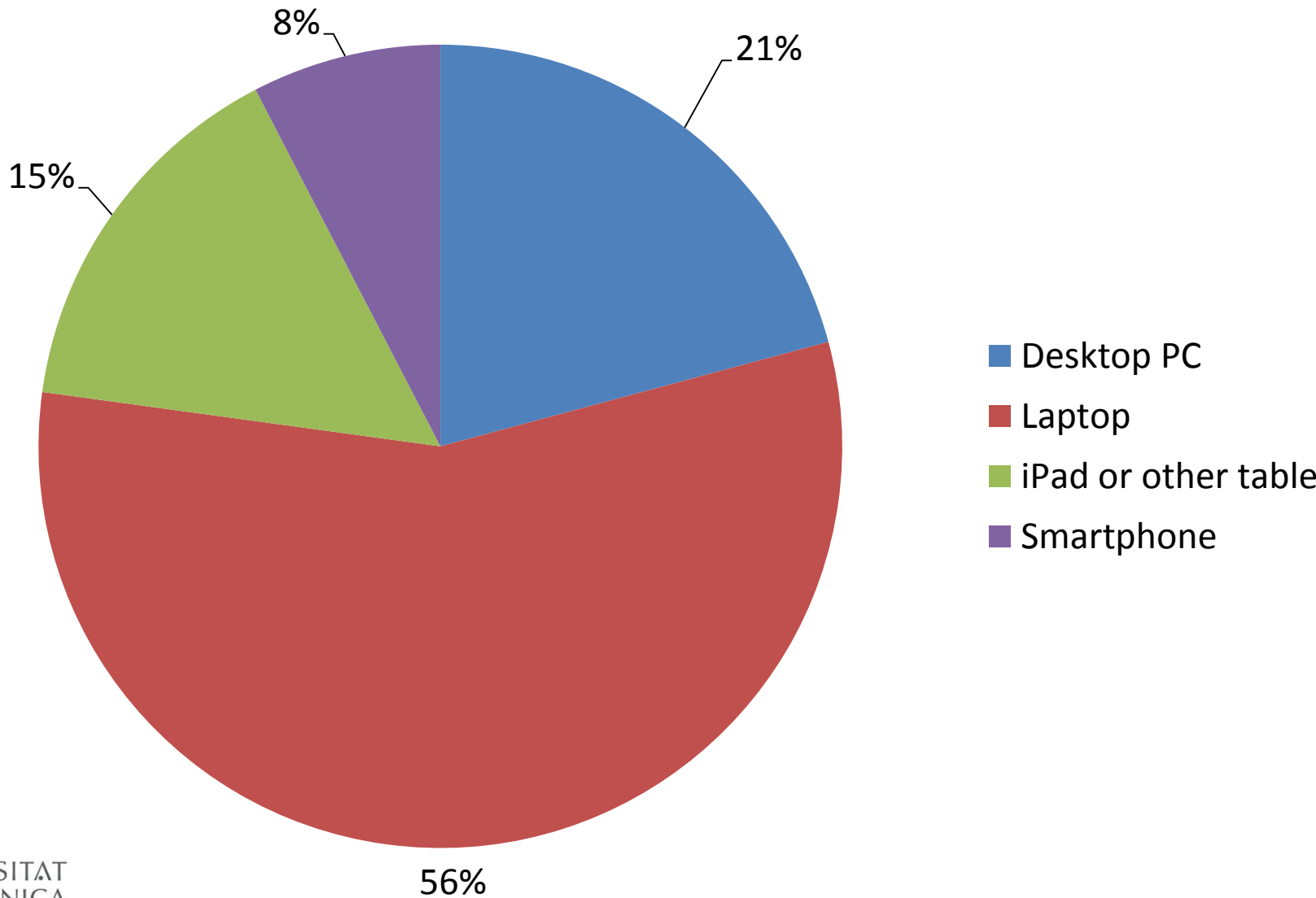
I would like to have videoapuntes in more courses



Have you assisted to less lectures because of having the recordings available?



In case it was available, what device would you prefer to access the videoapuntes content?



Conclusions

- UPV has made a wide deployment of lecture recording during the 2012-2013 term
- We have been able to make fully automated recording, so we are able to scale up
- Students are very happy in having recordings
- We are going to add more tools to get more than just the video, like comments, OCR from the slides, etc

Thanks!