

An effective video-based learning approach: a solution for complex university subjects

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1

TOOL

This research presents a tool that offers an agile solution for university subjects perceived by students to be significantly complex.



2

VIDEO-BASED LEARNING

The tool combines, on the one hand, video-based learning and, on the other hand, a system for assessing difficulty prior to the production of videos.



3

FEEDBACK

As a starting point, student feedback was used to obtain a map of subject difficulty.



4

VIDEOS

Based on the identifying markers on this map, a set of ad hoc videos was prepared to address the key and most difficult issues.



5

SURVEY

After using these videos in their preparation in the subject, students completed a satisfaction survey, which was qualitatively validated by experts and quantitatively validated with a Cronbach's alpha test.



6

RESULTS

The results of this survey reflect the usefulness of the designed learning proposal and the interest aroused in the students.



7

PERFORMANCE IMPROVEMENT

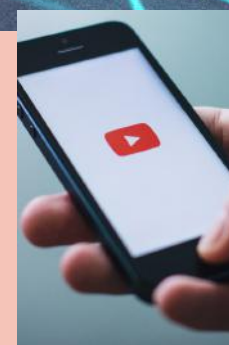
Likewise, through statistical analysis, an improvement in the academic performance of students with access to these videos compared to the control group was revealed.



8

EXTRAPOLABLE

Using an accounting subject for a pilot test has enabled the construction of a learning proposal that can be extrapolated to any field of knowledge.



9

PROTAGONIST ROLE

The proposed system thus contributes an effective teaching process for students and allows them to be protagonists in their own academic training.

