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IMPACT ANALYSIS OF THE EDUCATIONAL MATERIAL IN HIGHER EDUCATION

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Abstract

In the last decade, the universities have evolved for suiting the demands raised by the new generation of students and the current changing society. Learning Management Systems (LMS) have been implemented in higher education but much of the effort has been focused on training the teaching staff on the use of such applications. Unfortunately, there is not a substantial improvement in the academic results since these tools basically, deliver the necessary documentation for lectures in digital form rather than printed. However, teachers are not aware of the predilection of the students for printed documentation, who finally proceed to print such digital content.

Many studies try to assess the satisfaction of the students, which is certainly positive with regard to the online platform, but do not delve into the issue in detail. Some universities consider sufficient the implementation of a LMS that allow teachers to interact with the students in an online basis. However, the use that teachers make of those platforms is overlooked.

An extensive survey was conducted among some students and teachers of the Engineering Faculty of Bilbao. This study reveals the tendency to share mainly lectures in text and presentation formats. At the same time, the skills of the teachers to develop more engaging educational material such as, 3D models, interactive documents, etc., are analysed. Finally, the opinion of both population samples is gathered in qualitative terms.

Keywords: educational technology, higher education, m-learning, 3D, learning management system.

1 INTRODUCTION

Universities are involved in a constant evolution to promote competent professionals according to the requirements of the present demanding society. At the same time, administrators are concerned with the success rates of their institutions. Implementing Learning Management Systems (LMS) to provide a Blended Learning experience is, currently, a common practice. It is supposed that face-to-face lectures will be enriched with the educational content delivered through these platforms.

However, teachers are reluctant to use them, due to the increased workload that it entails [1] [2]. As a result, the LMS has often substituted the reprographic service, delivering the same material through a digital format, which should not necessarily improve the learning-teaching process [3] [4]. Although students are inclined to multimedia-rich content such as video and audio but, specially, interactive content and applets [5] [6], the development of such material is not feasible for every teacher. Therefore, regarding the type of contents provided, the discretion of the teacher prevails [7].

Unfortunately, several studies that attempt to assess the satisfaction of the students do not focus on the quality and variety of the educational material. Students are only questioned about the style and attitude of the teachers, leaving aside issues regarding the skills of the teachers to create engaging contents [8] [9]. Moreover, web browsing and productivity software (text processors and slide presentations) are considered remarkable skill in some previous studies [10]. In order to excite the cognitive system of the students, the provided material should be impressive, since their initial impression will guide the use that they will give to the tool [11] [12].

The present research presents the analysis of parallel surveys conducted on students and teachers. The aim of the study is to assess qualitatively the type of educational material delivered and the opinion of the students regarding the improvement on the teaching-learning process.
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REFERENCES


