Chapter 75

Teacher, Students, and MOOCs: Innovating and Researching Teacher Training

Carlos Monge López Universidad de Alcalá, Spain

Patricia Gómez Hernández Universidad de Alcalá, Spain

ABSTRACT

The main aim of this research is to understand future teachers' attitudes, knowledge and needs about Massive Open Online Courses (MOOCs). These courses are a supplementary resource in Higher Education that can fill fields of knowledge in which the curriculum could not encompass. In addition, these types of courses can contribute significantly to teachers, both in initial and in-service, training. For this reason, the students' perspectives towards MOOCs are essential in these terms. In this way, fundamentally a questionnaire was administered to the students in the Degree in Teaching of Childhood Education, Degree in Teaching of Primary Education, and Masters Degree in Teacher Training of Secondary Education (n=145). The results indicated that a large part of the sample confirmed that they did not know anything about MOOCs. Therefore, Universities need to train competent future teachers in MOOCs culture. This chapter provides insights into the topic of advancing next generation elementary teacher education through digital tools and applications.

INTRODUCTION

Technology is a social reality that changes cultures and, therefore, all levels of education. Massive open online courses (MOOCs) are an example of this idea, representing a new teaching and learning model in higher education. Gómez, Monge, and García (2016a) say that the first course similar to MOOCs was born in 1922. At that time, New York University began offering courses by radio with a massive and open character. The model was soon replicated by other universities and institutions. The onset of MOOCs was strongly related to open resources and codes movement, allowing information exchange,

DOI: 10.4018/978-1-5225-5631-2.ch075

recognizing its original authorship, and promoting collaboration between users. This movement gave rise to free content licenses (for example, Creative Commons) and open content publishing (for example, Open Course Ware project), an online publishing initiative created to provide free access to university teaching materials published under Creative Common licenses. In addition, it introduced Khan Academy, a non-profit organization offering a collection of educational videos with tutorials and lessons on mathematical organization. One of the differences between these types of initiatives is that they not only leave materials accessible, but also the entire training action.

It can be considered that the first MOOC was launched in 2008 by Manitoba University under the acronym CCK08. The small course gave support to 24 students via an open access network. The network admitted 2,200 registered participants, of whom about 150 were actively interacting at different times. This course, which provided both theoretical and practical levels of connectivism foundations, was unique and pioneering due to its high number of attracted users, as well as the learning experience it provided.

The characteristics of these courses include (Castaño & Cabero, 2013):

- 1. Similarities with an onsite class;
- 2. A start date and deadline;
- 3. Assessment mechanisms;
- 4. Virtuality;
- 5. No charges;
- 6. Openness;
- 7. Massification and no admission criteria; and
- 8. Massive and interactive participation.

In the same case, Milheim (2013) shows other principal features, including:

- 1. Openness;
- 2. Massive registration and educational dropout;
- 3. Limited interaction between students during the courses;
- Prestigious and expert universities as the most representative institutions that design and promote MOOCs; and
- 5. Low cost for students and universities.

Online, openness, and massification are the most important and consensual characteristics of MOOCs, regardless of authors, period of time, or research line.

The relative process of MOOCs is usually described in five phases:

- 1. Registration at platform and courses
- 2. Presentation/tutorial about the course
- 3. Learning modules (pills, discussion forums, assessment, tests, blind peer review, badges, and karma)
- 4. Final assessment
- 5. Certification

Silva and Salgado (2014) affirm that other particularities of MOOCs refer to benefits and risks during teacher education (Table 1). Meanwhile, Milheim (2013) shows some disadvantages:

24 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage:

www.igi-global.com/chapter/teacher-students-and-moocs/203247

Related Content

Equipping Teacher Educators for Digital Teaching and Learning: Promises, Practices, Challenges, and Strategies

Pradeep Kumar Misra (2019). Handbook of Research on Faculty Development for Digital Teaching and Learning (pp. 119-139).

www.irma-international.org/chapter/equipping-teacher-educators-for-digital-teaching-and-learning/228368

A British and Dutch Caribbean Overseas Territories Training Evaluation Case Study: An HIV/AIDS Workforce Training Perspective

Lennise Baptisteand Tamarah Moss (2017). *Training Initiatives and Strategies for the Modern Workforce* (pp. 19-40).

www.irma-international.org/chapter/a-british-and-dutch-caribbean-overseas-territories-training-evaluation-case-study/174351

Providing Professional Development Opportunities to Staff in Tough Economic Times: A Guide for Administrators

Kathleen L. Sacco (2014). Revolutionizing the Development of Library and Information Professionals: Planning for the Future (pp. 60-75).

www.irma-international.org/chapter/providing-professional-development-opportunities-to-staff-in-tough-economic-times/92410

Strengthening Internationalisation of the Curriculum in Higher Education: A Case Study

Lawrence Meda (2019). Handbook of Research on Promoting Higher-Order Skills and Global Competencies in Life and Work (pp. 281-294).

www.irma-international.org/chapter/strengthening-internationalisation-of-the-curriculum-in-higher-education/208604

What Sparks Critical Learning?: Exploring the Dialogical Teaching Context Facilitated in the LEAD Course

Barbara Anne Pollard (2020). Handbook of Research on Leadership Experience for Academic Direction (LEAD) Programs for Student Success (pp. 297-322).

www.irma-international.org/chapter/what-sparks-critical-learning/250795