

MOOC for the Multidisciplinary design of bridges

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ABSTRACT

In last years, the traditional blackboard teaching has been incrementally supplemented by visual aids like slide projectors and videos. The phenomenal growth of the internet has brought in new teaching media, such as Massive Online Open Courses (MOOCs) that open the educational experience up to a broader and more distant set of students. This easy access to education can increase motivation and it is a useful commercial tool for universities. Unlike other disciplines (such as economics or psychology), the MOOCs are rarely used to spread civil engineering courses. To fill this gap, and to encourage the use of MOOCs among civil engineering schools, this paper presents the experience of the MOOC for the multidisciplinary design of bridges created by the University of Castilla-La Mancha (Spain). This MOOC is an ambitious project of the civil engineering, transportation, urban planning, geotechnical engineering, material science, project management, environment engineering, topography and hydraulic engineering).