Modern learning strategy for teaching about construction management in Poland

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ABSTRACT

Today, more and more employees are marked by an increased familiarity with digital solutions. On the other hand, an impact of the information technology on the accuracy of decision making processes is significant. In search of a competitive advantage employers have to learn how to profit from a competence of such people. However, digital natives have to be educated in a correct way, in terms of both hard and soft skills.

Unfortunately, education programs, also those related to construction management, not always meet the market requirements. Therefore higher education institutions start to answer the challenge and convert their policies and teaching programs into 21st-century-friendly.

The paper describes a specificity of the teaching about construction management. It explains modern strategies to attract student’s attention and to provide him/her necessary capabilities useful in a future job.

First, articles indexed by the Web of Science database from 1999 to 2017, were examined in order to verify a specificity of higher education as well as main factors conditioning teaching about construction management. Moreover, a comprehensive analysis of the new program contents and methodologies used was executed. Then a course model was proposed which provides a reconciliation between traditional and unconventional approaches. Whereas that every change requires preparation, some opportunities and threats were explored.

The article refers also to examples of good practice implemented at the UTP University of Science and Technology. Construction management students witness new didactic strategies (blended learning, case studies, site visits, webinars, conferences) as well as learn about innovative solutions useful in construction management: Building Information Modelling (BIM), Unmanned Aerial Vehicles (UAV) or machine learning.

Conclusions of the analysis show that the course model can be useful for implementation in the higher education, especially in construction management.

REFERENCES


