



Creative project oriented learning strategy: teaching information and communication technologies for future health professionals (id53)

Paulo Veloso Gomes (LabRP, CIR, ESS-P.PORTO); João Donga (ESMAD-P.PORTO); Renato Magalhães (LabRP, CIR, ESS-P.PORTO); Vítor J Sá (Universidade Católica Portuguesa); Sandra Ferreira (Group of Schools of Perafita, Matosinhos, Portugal)

Abstract

Digital native learners arrived at Higher Education Institutions. Digital skills are fundamental to the future health professionals, improving their academic performance and prepares them for their integration into the labor market. Information literacy continues to be a problem even for digital native students, being familiar with the daily use of technology does not mean knowing how to take advantage of its potential in an academic and work context. The daily use of technological devices, such as tablets and mobile phones, can create in students the illusion that they already have all the necessary skills to take full advantage of information and communication

technologies. Therefore, information and communication technologies teachers face new challenges in the teaching/learning process. The Creative Project Oriented Learning Strategy in Teaching Information and Communication Technologies for future Health professionals contributes to the integration of information and communication technologies in the curricula of higher education courses in the health area. This strategy is based on project-oriented approaches, combined with interactive and immersive based-gaming learning activities that appeal to creativity, autonomy and encourage proactivity, self-learning, and the constant search for continuous

improvement. This work proposes the elaboration of a differentiating strategy (Creative Project Oriented Learning Strategy), that exploits the potential of using Game-Based Learning, Immersive Environments (Virtual Reality, Augmented reality and 360 Video) and the Project-Oriented Approach in learning environments, for Teaching information and communication technologies to higher education students in health courses, based on the mapping between the characteristics of students, and the expected digital skills that those students and future health professionals should achieve during their bachelor's and master's courses in the health area.

