

SESSÃO PARALELA 4 – LOGÍSTICA

ASSESSMENT OF OPEN-SOURCE ERP ONLINE SOLUTION IN LOGISTICS EDUCATION DURING AND AFTER COVID-19

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Logistics are responsible for the physical and information flows which promote cooperation in Supply Chain Management. Supply Chain Management makes use of Information and Communication Technologies (ICT) to gather data, generate information and support decision-making by the logistics manager. The logistics manager higher education should prepare them for the use and dissemination of ICT in their companies. This paper describes the implementation of an Enterprise Resource Planning (ERP) Open-Source online software solution, to support the laboratory component of classes in the curricular unit “Information and Communication Technologies” of the Bachelor in Distribution and Logistics Management, at the School of Business Administration of the Polytechnic Institute of Setúbal, in Portugal.

The curricular unit's program foresees the use of demonstrative and experimental methods to highlight the role of ICT as a facilitator of supply chain processes and logistical activities using: 1) an ERP software solution and 2) an illustrative database set of company. The online solution was introduced in the Covid-19 pandemic context to ensure the teaching of the laboratory component, which was limited to use in the classroom. With the students return to presential classroom lessons it was necessary to readjust the previously developed model, which proved to be an asset in student learning. An approach based on experiential learning continued to be used, but now with the use of the ePortfolio as a preparation tool for assessing the practical knowledge acquired. This contribution details the pedagogical model developed, implemented, and accessed in the Bachelor course. The OPEN-Source ERP solution was evaluated by the students through a survey, and the results revealed a positive impact of the pedagogical model used in the teaching-learning process, namely in the acquisition of technical knowledge and practical competencies in logistics.

Keywords: Enterprise Resource Planning (ERP), Odoo, Open-Source, Online Education, ePortfolio