Análisis y aplicación de técnicas de aprendizaje activo en mecánica aplicada [

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text (article)

Analítica

The use of laboratory practice in engineering training is key for bridging the gap between the theory taught in the classroom and the real world. Standardization in laboratory tests reduces the possibility for students to use creativity and problem-solving abilities. This paper performs a methodological analysis of learning in order to establish the way Industrial Materials and Applied Mechanics students could participate more actively in their own learning process (active learning) in the framework of the curricula project on Industrial Engineering at Francisco José de Caldas University. In the first part of the paper, the methodology and types of learning are described according to Kolb model, followed by a description of current difficulties in laboratory practices at the University. To conclude, some of the equipments (software and hardware) used during this research project are shown, and their advantages and di-sadvantages are described.
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