

THE PEDAGOGICAL POTENTIAL OF E-LEARNING ENVIRONMENTS TO IMPROVE MATHEMATICAL AND SCIENTIFIC TRAINING OF ENGINEERING PERSONNEL

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ABSTRACT

This article explains that mental activity in e-learning environments was closely linked to the implementation of the following principles: coding, modeling, visualization and cognitive. The pedagogical potential of e-learning environments is reflected in the following resources: the creation of simulated situations (situations of success, the introduction of the adversarial elements, etc.); granting of the right of the student to choose learning path with its subsequent adjustment; intensification of training and learning activities through the provision of professional orientation training, e-learning technologies; the integration of the content of the mathematical and natural sciences with elements of professional knowledge, founded on shared concepts studied, integration links, integration methods, forms and tools.

Keywords: Electronic, educational, mathematical, life, engineers, professional, training, knowledge.