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Design of a Computerized Educational Material for the Learning of Complex Numbers in the Fifth Year Students of the E.T.N Enrique Delgado Palacios

ABSTRACT

The design of Educational Materials involves the understanding of many aspects in order to develop tools that effectively support the teaching-learning process within a classroom. The use of new technologies in the classroom opens up extraordinary possibilities for the realization of new pedagogical models aimed at improving the instructional process. The purpose of the study is the design of a computerized educational material (MEC) with a view to strengthening the algebraic processes of complex numbers in fifth-year students in their different specialties at the Enrique Delgado Palacios de Guácará National Technical School. Methodologically, the research is located in a non-experimental descriptive field research, with a feasible project modality and was supported by Robert Gagné's Theory of Learning, the technique for data collection was a 20-item questionnaire with several options. of answers that was applied to 28 students that make up the sample of a population of 78 schoolchildren. Finally, the MEC contributes to promoting the comprehensive development of individuals in the algebraic operations of complex numbers, strengthening didactics for compression and actively producing their learning based on their needs.

Descriptors: computerized educational material, learning, teaching, Complex numbers, algebraic operations, technology

Biographical Review: Juan Carlos Figueroa Mora: Mathematics professor graduated from UPEL, Master in Mathematics Education graduated from the University of Carabobo, professor at the Simón Rodríguez National Experimental University in the subjects: Precalculus.

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