

ACADEMIC PERFORMANCE OF THE AGRONOMIC HIGHER EDUCATION INSTITUTIONS EVALUATED BY USING THE NONPARAMETRIC METHOD OF DATA ENVELOPMENT ANALYSIS

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Abstract

Purpose of the article: During the process of transition to the market economy, a series of reforms have been undertaken to improve the performance management in the agricultural sector by using the econometrical multitasking

Methodology: The study employs the nonparametric method of Data Envelopment Analysis (DEA) to quantitatively evaluate the academic performance of institutions offering higher education in agriculture. Specifically, this analysis focuses on assessing the efficiency of teaching staff in executing didactic, research, and innovation tasks. The methodology was chosen to address the limitations of previous performance evaluation techniques that were found to be technically and morally outdated.

Conclusions: In the paper is defined the need to evaluate the efficiency analysis of the teachers in the institutions of agronomic higher education to create the necessary premises to achieve a match between the requirements imposed on the job occupied with the professional qualities and skills of the one being evaluated. At the same time it is necessary to provide a motivational system as efficient as possible to raise the individual performance level.

Originality: The paper's originality lies in its application of the nonparametric method of Data Envelopment Analysis for evaluating the academic performance of agronomic higher education institutions during economic transition. It introduces a novel approach to analyzing teacher efficiency in relation to market-driven educational policies and suggests the need for a more effective motivational system to improve individual performance.

Keywords: efficiency analysis, agronomic profile, Data envelopment analysis, educational policies, multitasking