

A Model for Effective Mathematics Teaching With an Emphasis on the Development of Transversal Competencies in Technical and Economic Study Programs

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Abstract – The research results published so far have shown that success in mathematics positively affects the retention rate at technical and economic universities. Various studies have explored different forms, methods, and tools in mathematics teaching to improve student success, but an effective teaching model is yet to be identified. Based on previous experience and published results, a model of effective teaching was proposed with an emphasis on developing selected cross-sectional competencies to increase student retention. A recent study aimed to verify the effectiveness of this model in the pilot subject Mathematics I. The study included 211 first-year students of 7 bachelor's technical-economic study programs. Results showed significant improvement in the group of students who struggled with mathematics. The study confirmed that an appropriately chosen intervention in mathematics can increase the success rate of completing technical and economic study programs, and this approach can also be applied at other universities.

Keywords – Efficiency, teaching, mathematics, transversal competencies, technical and economic study programs.

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1. Introduction

Teaching mathematics in engineering studies has been reported worldwide as problematic due to the low student retention rate [1], [2]. High dropout rates, especially in the STEM disciplines (science, technology, engineering and mathematics) [3], have proved intractable despite offering supplemental instruction [4]. High failure rates in mathematics subjects and lower retention in disciplines with mathematics-intensive subjects have prompted tertiary institutions to set up some form of mathematics support to prevent these students from failing [2].

Success or failure in mathematics strongly influences the choice of study orientation and completion [5], [6]. Therefore, studies have been undertaken to identify how to increase student's success rate in mathematics and thus improve the success rate of completing engineering studies [7], [8], [9], [10], [11].

As Drijvers [12] points out, many university students are not sufficiently prepared to study mathematics at the university level. In addition, in recent years, there has been a negative trend (decline) in the preparedness of secondary school graduates in mathematics for university studies [13]. Only 10% of students complete their studies without intervention, while 40% obtain a bachelor's degree with additional help [14].

Among the traditional causes of insufficient mathematical preparation of students for engineering education are mainly inadequate preparation in secondary schools, a lack of dedicated hours to mathematical education and a weak connection between the requirements of engineering disciplines and the mathematical curriculum [15]. Bargagliotti *et al.* [16] also mention students' characteristics, lack of effort and motivation, or low study skills.

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National Science Foundation (U.S.). Division of Science Resources Studies, Energy Abstracts for Policy Analysis, 1987

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Zhang,Tian Tang,Satar Bakhsh,Xuemeng Liu,2025-09-01 The accelerating global climate crisis demands innovative and sustainable financial strategies to mitigate its impacts and facilitate the transition to a carbon neutral economy Green finance and carbon neutrality are instrumental in this endeavor Green finance entails financial investments directed towards sustainable development projects and initiatives that promote environmental benefits Its growth is critical in supporting the transition to a low carbon economy Simultaneously the concept of carbon neutrality which refers to achieving net zero carbon dioxide emissions by balancing or eliminating emissions entirely has become a central goal for many governments and organizations worldwide The urgent global challenge that this Research Topic aims to address is how to effectively integrate green finance strategies into our path towards achieving carbon neutrality Despite the increasing importance of both these areas there remains a significant knowledge gap on how they can synergistically drive a shift towards a low carbon sustainable economy Moreover the absence of standardized regulations and lack of broad understanding of these concepts have contributed to slower adoption and implementation rates than what is urgently required The goal of this Research Topic is to consolidate recent advancements present innovative strategies and highlight successful case studies in the nexus of green finance and carbon neutrality This includes exploring novel financial instruments and models that encourage sustainable investments comprehending the socio economic impacts of moving towards a carbon neutral economy and showcasing policy mechanisms that have effectively integrated green finance and carbon neutrality By amalgamating these insights we aim to guide policymakers inform business practices stimulate further academic exploration and ultimately accelerate the global journey towards a sustainable carbon neutral future The scope of this Research Topic encompasses a broad range of themes at the intersection of green finance and carbon neutrality We are particularly interested in empirical Original Research articles in depth Reviews of current literature Policy and Practice Reviews and case studies demonstrating the successful application of green finance strategies in achieving carbon neutrality Potential topics include but are not limited to following areas Development of innovative green financial instruments Analysis of policy frameworks and regulations promoting carbon neutrality Examination of the role of ESG Environmental Social Governance factors in investment decisions Studies on the socio economic impacts of transitioning to a carbon neutral economy Manuscripts that provide novel insights propose unique models or offer critical perspectives on existing approaches are highly encouraged By collating these diverse viewpoints we aim to further enrich the dialogue on sustainable development and carbon neutrality

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