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 successrate 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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Chu Wei

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