

Exploring the Full Potential of Collaborative Learning and E-Learning Environments in Universities: A Systematic Review

Wagino Wagino¹, Hasan Maksum¹, Wawan Purwanto¹, Krismadinata Krismadinata¹,
Suhendar Suhendar², Rahmat Desman Koto¹

¹Universitas Negeri Padang, Padang, Indonesia

²Universitas Sultan Ageng Tirtayasa, Banten, Indonesia

Abstract – This systematic review examines the challenges and potential solutions to improve the implementation of collaborative learning and e-learning environments in universities. The article analyzes 200 relevant articles published between 2014-2022 using a qualitative approach to identify themes and sub-themes related to collaborative learning and e-learning environments. The study reveals various learning methods employed, including MOOC (Massive Open Online Course), digital mind maps, and tripartite learning, but also highlights challenges such as lack of digital infrastructure, low-quality internet networks, and inadequate practical tools. The research emphasizes the need for effective leadership and management in vocational institutions and recommends further research on curriculum development, learning evaluation methods, lecturer performance assessment, and improving digital infrastructure and educator training. Collaboration with industry and other training institutions is also suggested to improve students' employability and entrepreneurship skills.

Keywords – Collaborative learning, e-learning, universities, MOOC, TVET, learning management system.

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Corresponding author: Wagino Wagino,
Universitas Negeri Padang, Padang, Indonesia
Email: wagino@ft.unp.ac.id

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1. Introduction

In the last few decades, collaborative learning and e-learning have become a major focus in the university environment [17], [20]. This learning method places students as active participants in the learning process, thereby increasing their involvement and the learning outcomes achieved [13], [52]. However, there are various types of collaborative learning and e-learning learning methods, but not all methods are suitable for all types of subject matter [6]. Universities and teachers are increasingly aware of the importance of collaborative learning and e-learning methods in improving student learning outcomes and their involvement in the learning process [50]. However, despite much research being conducted on collaborative learning and e-learning, there is still confusion about which methods are most effective in a university setting [43], [60]. Today's higher education places an increasing emphasis on developing social and professional skills, in addition to academic achievement [21]. Collaborative learning and e-learning in the university environment is one method that can help students develop these skills, by involving them in discussions, group work, and collaborative learning and e-learning projects [35]. However, the effective use of collaborative learning and e-learning methods in a university environment is not always easy [3]. There are many factors that influence its effectiveness, such as learning structure, class size, teacher expertise, and more [35], [39]. Therefore, it is important to evaluate different collaborative learning and e-learning learning methods to identify the most effective [18]. In the digital era like now, technology has become an integral part of the learning process [3]. In particular, the use of e-learning technology and collaborative learning in universities is increasingly popular in an effort to improve the quality of learning [46], [54].

Exploring Literature A Collaborative Approach

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