

## DIGITALISATION OF EDUCATION: UNLIMITED INNOVATION IN THE MODERN LEARNING ERA

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### Abstract

This study discusses the transformation of the education system through digitalisation, which brings unlimited innovation in the era of modern learning. The digitalisation of education enables broader, more flexible, and personalised access to learning by utilising technologies such as Learning Management Systems (LMS), interactive media, and learning analytics. However, the digitisation process is not without significant challenges, such as infrastructure inequality, teacher readiness, data security issues, and psychological impacts on students. This study uses qualitative methods with literature review to identify strategic solutions that can overcome these obstacles, including infrastructure equalisation, teacher digital competency training, security regulation development, and the implementation of hybrid learning models. The results of this study are expected to provide recommendations for education stakeholders in optimising digital innovation to create an inclusive, adaptive, and sustainable education system.

**Keywords:** Education digitalisation, learning innovation, Learning Management System, technology access gap, hybrid learning, data security, teacher digital competency.

### Introduction

In the era of globalisation and the Fourth Industrial Revolution, advances in information and communication technology have brought fundamental changes to various aspects of human life, including education. The digitisation of education is no longer an option, but has become a primary necessity to support the effectiveness and efficiency of learning (Judijanto & Aslan, 2025); (Purike & Aslan, 2025). Digitalisation opens up opportunities to change the traditional learning paradigm, which is conventional and limited in terms of space, time, and resources, into a more inclusive, flexible, and innovative process. With digitalisation, every individual can access learning resources anytime and anywhere, making education more open and adaptive to the needs of the times.

This demonstrates the existence of unlimited innovation that can drive improvements in the overall quality of education (Haleem et al., 2022). However, the process of digitising education is not merely the application of digital technology but