



Salmiah Aziz

Technologically Advanced Classrooms by Customising Blogs (TACblog) Amongst Architectural Design Students for Spotlight and Publication

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Description The advancement of new technologies into our daily lives has resulted in a significant increase in the use of information and communication technology (ICT) in education in recent years. The research objectives were to identify the possibility of blogging amongst architectural design students for the future of schooling (blended-learning) and to formulate the best practice of ICTs knowledge management practice through blended-learning for the architectural design students. The data collected through reviewing the literature by other authors (secondary sources) on the subject of digitalisation, digital construction, and digital education. The research could significantly affect the future of education in producing young tech-savvy generations in terms of technologically advanced classrooms; new option of blogging platform for the architectural design students to practice design communication through e-learning known ...

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Abstract

The advancement of new technologies into our daily lives has resulted in a significant increase in the use of information and communication technology (ICT) in education in recent years. The research objectives were to identify the possibility of blogging amongst architectural design students for the future of schooling (blended-learning) and to formulate the best practice of ICTs knowledge management practice through blended-learning for the architectural design students. The data collected through reviewing the literature by other authors (secondary sources) on the subject of digitalisation, digital construction, and digital education. The research could significantly affect the future of education in producing young tech-savvy generations in terms of technologically advanced classrooms; new option of blogging platform for the architectural design students to practice design communication through e-learning known as TACblog as a digital education formulation.

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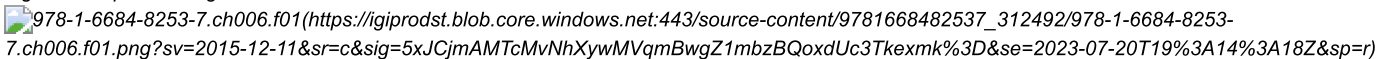
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Introduction

People in various industries were forced to use digital tools to keep their businesses running during the lockdowns in The New Norm as so-called volatility (V), uncertainty (U), complexity (C), and ambiguity (A) in a short form as VUCA.

Because of this, the pandemic has hastened development across practically all industries, including construction, which has long lagged other sectors in innovation. Construction has a low level of digitalization, a disjointed ecosystem, and a high rate of faults when compared to other industries. The COVID-19 conference has highlighted a change in mindset towards digital tools as well as quicker investment decisions. Modernization and digital transformation are therefore likely to pick up speed and establish themselves as the new industrial norms (Figure 1). Technology adoption was very strong throughout the lockdown periods, and new technologies were integrated into existing designs as part of the reaction to the pandemic. As a result, a digital transformation seems to be well under way in a field that is notorious for being slow to absorb technological advancements.

Figure 1. Aspects of digital transformation

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The process of digitising architecture and construction, as well as the built environment in which we all live, necessitates unprecedented cross-domain and cross-industry collaboration. It combines the internet of things, the industrial internet, smart homes and cities, and cloud-based, fully digitised design and manufacturing. And it will take millions of companies to build it because each one focuses on a specific geographic area and type of building. As today's world enters digitization, it's linked to the way of modernization in education, so-called digital learning.

Due to the incorporation of new technologies into everyday life, information and communication technology (ICT) use in education has risen significantly in recent years. ICTs have grown in importance in our society, finding applications in everything from administration to robotics, education, and a variety of businesses. The construction industry is pursuing its revolution, the fourth industrial revolution, with a tidal shift in how the sector addresses difficulties by creating a strong digital basis through cooperative effort. At the intersection of people, new technologies, and innovation, the revolution is a transformation that includes automation, data exchanges, cloud computing, big data, artificial intelligence (AI), the Internet of Things (IoT), and semi-autonomous industrial techniques to realise manufacturing and smart industry objectives (Sa'ar, 2017).

MSC Malaysia, an initiative that has contributed to turning Malaysia into a knowledge-based economy since 1996, will be replaced by Malaysia Digital. The new project aims to improve the country's digital capabilities and advance the digital economy with a new and better framework. The ultimate beneficiaries will be the rakyat, businesses, government, and country. Malaysia Digital will enable Malaysia to better prepare for today's constantly changing scenario and construct the foundation of a digital nation (Corporate Affairs Division, Malaysia Digital Economy Corporation (MDEC), 2022).

Due to the rapid development of the Industrial Revolution (IR) 4.0, the Malaysian Education Institution is transforming the present educational system into the education system of the future 4.0. Due to the consequences of IR 4.0 and the COVID-19 outbreak, the Malaysian Educational Institution has also adopted a new paradigm to guarantee that all lecturers can use ICT in teaching and learning.

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