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EXPERIENCING THE INTEGRATION OF AUGMENTED REALITY (AR) IN TEACHING AND LEARNING OF ARCHITECTURAL WORKS

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Abstract: *This research contributes to enhancing student's learning experience and increasing their visualisation and understanding of complex construction drawing by incorporating Augmented Reality (AR) mobile application into Construction Measurement of Architectural Works course in Quantity Surveying programme. By using conventional approach of teaching and learning, students need to put extra effort to stimulate their visualisation on the drawings before they start with the measurement process. The aim of this research is to initiate technology-based teaching and learning in the Construction Measurement of Architectural Works course by integrating AR. It is expected to overcome the difficulties to understand the construction drawings that they need to measure during hands-on activity. This initiative and innovation will help students to visualize what they want to measure off in the drawings and empower effectiveness of the T&L experience. The objective of this research is to develop a prototype of mobile application as an innovative and revolutionary tool for teaching and learning for Construction Measurement of Architectural Works course and to observe the performance of students in achieving course learning outcome (CLO) of the course.*

Keywords: Quantity Surveying, Augmented Reality, 3D models, learning method.