



**CENTRE OF STUDIES FOR QUANTITY SURVEYING  
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UNIVERSITI TEKNOLOGI MARA (UiTM) PERAK**

**THE ADOPTION OF BUILDING INFORMATION MODELLING (BIM)  
AMONGST FRESH GRADUATE QUANTITY SURVEYORS**

Dissertation submitted in partial fulfilment  
of the requirement for the award of  
Bachelor of Quantity Surveying (Honours)

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**SEMESTER: OCTOBER 2023 – FEBRUARY 2024**

## **AUTHOR'S DECLARATION**

"I declare that this Dissertation is the result of my own research and that all sources  
are acknowledged in the references"

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Date : 04 January 2024

## **ABSTRACT**

Building Information Modelling is a set of digital tools or software that can integrate the data and manage construction projects to run efficiently and effectively. BIM is also the technology that can improve the effectiveness and standard of built asset design, construction, and operation. The quantity surveyors can accomplish their typical tasks, such as measurement, procurement advising, estimating and cost planning, and the creation of bills of quantities, more successfully and efficiently by adopting BIM. However, the adoption of BIM amongst quantity surveyor is still low in many countries, including Malaysia. Thus, this research aim to present the adoption of Building Information Modelling (BIM) amongst fresh graduate quantity surveyors based on current demand on work in construction industry with the intention of uncovering new findings. There are three research objectives had been developed which are to identify the advantages of Building Information Modelling (BIM) amongst fresh graduate Quantity Surveyors, to determine the challenges encountered in adopting BIM amongst fresh graduate Quantity Surveyors, and to recommend fresh graduate Quantity Surveyors required competencies to overcome the challenges encountered in adopting Building Information Modelling (BIM). To achieve these objectives, a questionnaire survey based on random sampling method was had been adopted. The questionnaire survey had been distributed to the fresh graduate quantity surveyors from a Contractor G7 in Selangor. Consequently, the findings of this research revealed that the advantages for implementing BIM are BIM produce time saving in the preparation of costs. The challenges encountered in adopting BIM are Lack of information technology and computing skill in adopting BIM. The recommendation for fresh graduate Quantity Surveyors competencies to overcome the challenges encountered in adopting BIM are a tendency to be BIM pioneer and leader, investing in BIM training and upskilling, develop strong communication, preparation on technical competencies, and undertake BIM related certifications.

## **ACKNOWLEDGEMENT**

In the name of Allah, the Most Beneficent, the Most Merciful.

With high gratitude to Allah S.W.T who gave me the ideas and strength in preparing this dissertation. Despite the obstacles that I went through to complete this dissertation, with his permission and grace, I managed to complete this dissertation successfully.

First of all, I dedicate this dissertation to my beloved father, Mhd Nasruddin Bin Ahmad and my brother, Safwan Bin Mhd Nasruddin for the devotion, education, and endless pouring of love and never stop giving me their encouragement and full support in order for me to complete my dissertation. Thank you for all the understanding, information, and suggestion given to me when I really needed it.

Secondly, I would like to extend my heartfelt gratitude and appreciation to my supervisor, who has given me guidance and unfailing support and contribution of ideas in preparing this research. Also, a special thanks for her insightful supervision, encouragement, thoughtful criticisms throughout the research and her creative suggestions.

Last but not least, I want to thank me, I wanna thank me for believing in me, I wanna to thank me for doing all these hard works, I wanna thank me for having no days off, I wanna thank me for never quite, I wanna thank me for always being a giver and try'na give more than I received, I wanna thank me for trying to do more right than wrong, I wanna thank me for just being me all the times. Thank You.

Thank You.

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