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# Challenges and Strategies to Integrate Building Information Modelling (BIM) Into Quantity Surveying Programme in Sarawak Higher Education Institutions

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## ABSTRACT

In Malaysia, Construction Industry Development Board (CIDB) and Public Work Department (PWD) promote construction players to integrate Building Information Modelling (BIM) into the construction industry through seminars, and the BIM roadmap is provided as guideline. In addition, there are some organizations required Quantity Surveying (QS) graduates to be equipped with BIM. However, BIM knowledge and skills are confined in term of its practicality in term of collaboration and implementation. Moreover, higher education institutions of QS programme are not parallel with industry’s demand, and the knowledge and skills provided are insufficient with industry’s requirements. Therefore, this research will focus on determining the challenges and strategies to integrate BIM into QS programme in Sarawak higher education institutions. This study adopted a questionnaire survey, which targeted at the academicians from higher education institutions offering QS programme in Sarawak. Data collected were analyses using mean score, standard deviation, factor analysis, and ranking. The study identified 20 challenges and 10 strategies. Through factor analysis, the study grouped the identified challenges into few major factors. This study is relevant to QS programme as well as other related disciplines within the architecture, engineering, and construction (AEC) context.


**Keywords:** *Challenges; Strategies; Building Information Modelling (BIM) Integration; Quantity Surveying Programme; Sarawak Higher Education Institutions*