

## Mohamed Rizal Mohamed (Ts. Dr.)

### Senior Lecturer

School of Construction and Quantity Surveying  
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Google Scholar: <https://scholar.google.com/citations?user=douz0EIAAAAJ>

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=57224471053>

ResearchGate: <https://www.researchgate.net/profile/Mohamed-Rizal-Mohamed>



## Areas of Expertise

Industrialised Building System (IBS), Construction and Building Technology, Digital Twin, Facilities Management.

## Personal Information

Ts. Dr. Mohamed Rizal Mohamed is a Senior Lecturer in the School of Construction and Quantity Surveying, College of Built Environment, UiTM. He is a Registered Professional Technologies under the Malaysia Board of Technology (MBOT). He has 17 years of working experience in both public and private universities, and also in the construction industry. He holds a Bachelor Degree of Construction Management (Honours) and Master of Science in Facilities Management and PhD in Built Environment from Universiti Teknologi MARA. He is also a CIDB's certified IBS professional trainer. He is active in research and in supervising both postgraduate and undergraduate students. He had published several Scopus indexed journals, book chapters and conference papers.

## Academic Qualifications

Doctor of Philosophy (Built Environment), 2021, Universiti Teknologi MARA

Master of Science in Facilities Management, 2011, Universiti Teknologi MARA

Bachelor of Construction Management with Honours, 2006, Universiti Teknologi MARA

Diploma in Building, 2004, Universiti Teknologi MARA

## Professional Members

Malaysia Board of Technologists (MBOT), Professional Technologist, 2017-present.

## Teaching and Learning

Master, CPA723 – Facilities Management and Sustainable Development.

Degree, CMA534 – Sustainable and Large-Scale Construction

Degree, CMA674 - Project Evaluation and Development

## Student Supervision

### PhD

1. Vivian Anne Thomas Tarang (2016650862), Strategic Business Model Framework for Industrial Building System (IBS) Small Medium Enterprise (SME) Contractors, 2016 (On going) Co-Supervisor.
2. Jin Jianhao (0340022) Determinants of students' creativity of Arts and Design institutions in China: An empirical view of self-regulating Theory. 2021, (On going) External Co-Supervisor (Taylor's University).
3. Li Fei (0352799) Functional Replacement of Abandoned Industrial Buildings Drives the Urban Renewal, 2021 (On going) External Co-Supervisor (Taylor's University).

### Master

1. Lee Kai Yung (0318314), Integrating System Thinking in Industrialised Building System (IBS) In Malaysia, 2019 (Completed).
2. Gary Tan Shi Jie (CGS01970917) IBS Technology in Reducing Pandemic Outbreak in The Malaysian Construction Industry, 2021 (Completed).
3. Bridget Fong Kah Yee, The Implications of Virtual Workspaces towards Office Spatial Design, 2022 (Completed).
4. Nur Qistina Binti Ahmad Bakhtiar, Cross-laminated Timber: An Approach of Using Timber Towards a Better Construction Material in Building Industry In Malaysia, 2022 (Completed).
5. On Loo Eng Yin, Healthy Urban Park Design That Creates Wellness Community at USJ 11, Malaysia, 2022 (Completed).

## Publications

### Journal Article.

1. Vivian Anne Thomas Tarang, Mohammad Fadhil Mohammad, Anis Rosniza Nizam Akbar, Mohamed Rizal Mohamed, (2022) Pertinent Issues in Industrialized Building System (IBS) Construction Business In Malaysia, Journal of Built Environment, Technology and Engineering, Vol 9 (May),
2. Sujatavani Gunasagaran, Lee Kai Yung, Mohamed Rizal Mohamed, Tamilsalvi Mari, (2022). Integrating System Thinking in Industrialised Building System (IBS) In Malaysia, Journal of Engineering Science and Technology – Scopus indexed
3. Mohd Ashraf Mohd Fateh, Mohamed Rizal Mohamed, Siti Aisyah Omar, (2022). The Involvement of Local Skilled Labour in Malaysia's Construction Industry, Front. Built Environ. 8:861018. doi: 10.3389/fbuil.2022.861018 – Scopus indexed
4. Vivian Anne Thomas Tarang, Mohammad Fadhil Mohammad, Anis Rosniza Nizam Akbar, Mohamed Rizal Mohamed, (2022) Pertinent Internal and External Issues in Industrialised Building System (IBS) Construction Business in Malaysia, Built Environment Journal, 19(1), 32-41. – Mycite
5. Sujatavani Gunasagaran, Tamil Salvi Mari, Sivaraman Kuppusamy, Sucharita Srirangam and Mohamed Rizal Mohamed (2021) Learning Construction through Model Making and Its Application in Architecture Design Studio, International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies, 12(11), 12A11G, 1-10.  
DOI: 10.14456/ITJEMAST.2021.217 – WoS-ISI indexed

6. Mohamed Rizal Mohamed, Mohammad Fadhil Mohammad, Rohana Mahbub, (2021). Business Model Elements for Industrialised Building System. *International Journal of Academic Research in Business and Social Sciences*, 10(4), 429-446. – Era Indexed
7. Mohd Adib Ramli, Myzatul Aishah Kamarazaly, Lim Xiao Shi, Filzani Illia Ibrahim, Mohamed Rizal Mohamed and Kam Kenn Jhun (2021). Building Defects and Restoration Techniques of Heritage Buildings In Malaysia, *MCRJ Special Issue 12 (1)*. – Scopus Indexed
8. Mohamed Rizal Mohamed, Mohammad Fadhil Mohammad, Rohana Mahbub, Mohd Adib Ramli, Khairool Aizat Ahmad Jamal, (2018) The Issues and Challenges of Small and Medium-Sized Contractors in Adopting Industrialised Building System, *International Journal of Academic Research in Business and Social – Era Indexed*
9. Mohamed Rizal Mohamed, Mohammad Fadhil Mohammad, Rohana Mahbub, Mohd Adib Ramli, Sujatavani Gunasagaran, Siti Mariam Abdul Halim, (2019) Business Strategy of Small and Medium-Sized Enterprise Construction Companies in Adopting Industrialised Building System in Malaysia, *International Journal of Engineering & Technology – Scopus Indexed*

#### Proceeding Paper.

1. Khairool Aizat Ahmad Jamal, Mohammad Fadhil Mohammad, Norfashiha Hashim, Mohamed Rizal Mohamed, Mohd Adib Ramli (2019) Challenges of Building Information Modelling (BIM) from the Malaysian Architect's Perspective, *MATEC Web of Conferences 266, 05003 (2019) – Scopus Indexed*
2. Ishak, N. R., Mahayuddin, S. A., & Mohamed, M. R. (2015). Generation and Composition of Solid Waste in University Campus. In *Proceedings of the Colloquium on Administrative Science and Technology (pp. 119-126)*. Springer Singapore.
3. Ahmad Ridzwan & Mohamed Rizal (2012), Influence of proportion towards speech intelligibility in mosque's prying hall. *Asia Pacific International Conference on Environmental Studies*
4. Mohamed Rizal, Siti Akhtar & Noor Rizallinda (2012) Contractors' participation in sustainable construction, *1st International Conference on Innovation and Technology for Sustainable Built Environment 2012 (ICITSBE 2012)*.
5. Hasni Suryani Hasan, Hayroman Ahmad & Mohamed Rizal Mohamed (2011), Skill and competency in construction project success: learning environment and industry application – The Gap, *International Building Control Conference*.

#### Book Chapter.

1. Veronica Ng, Mohd Adib Ramli, Azim Sulaiman, Mohamed Rizal Mohamed (2018) To think structure, to feel space: An alternative to teaching construction in architecture, *PAM International Architecture Education Conference 2018*
2. Sujatavani Gunasagaran, Tamil Salvi Mari, Sivaraman Kuppusamy, Sucharita Srirangam and Mohamed Rizal Mohamed (2021) Partnership of Learning Construction Through Model Making: Case Study or Designing? *IGI Global*

## Research Grants and Contracts

1. Mohamed Rizal Mohamed, Mohd Adib Ramli, Azim Sulaiman, Khairool Aizat Ahmad Jamal, Mohammad Fadhil Mohammad. Mohd Reeza Yusof, (1 Nov 2017 – 31 Oct 2018), Business Strategy of Small and Medium-sized Contractors in Adopting Industrialised Building System in Malaysia, TRGS (Taylor's Research Grant) RM23,500.00, Principal Investigator.
2. Ishak, N. R., Mahayuddin, S. A., & Mohamed, M. R. Generation and Composition of Solid Waste in UiTM Perak, (2011 – 2012) UiTM Research Grant, RM1,500, Member.
3. Hasni Suryani, Hayroman & Mohamed Rizal, Skill and competency in construction project success: learning environment and industry application – The Gap. (2010 – 2011) UiTM Research Grant, RM3,400, Member.

## Consultation & Expertise

1. Subject Matter Expert (SME) for Master in Project Management, Open University Malaysia. 2018 – 2023
2. Module Enhancer for SMFM5163 - Technology and Innovation in Facility Management Open University Malaysia. 2023.
3. Module Writer for EMCA5103 - Project Cost Analysis and Appraisal, Open University Malaysia. 2019.

## Innovation, Commercialization & Entrepreneurial

1. The Innovation Of Light Tube by Using Recyclable Mineral Water Bottle – Silver Medal (2013), Invention, Innovation & Design, UiTM Perak
2. The Potential Use Of OpefbFibres To Produce Laterite Bricks – Silver medal (2010), 7th Invention, Innovation & Design UiTM Shah Alam

## Services & Administration

1. Syllabus review for Taylor’s Curriculum Framework (TCF) - 2020
2. Developed new modules for new master and bachelor programmes;
  - i. BSc (Hons) in Sustainable Digital Construction Management
  - ii. Master in Virtual Design and Construction
1. Fire Marshall for Emergency Response Team. 2018 – 2023
2. Committee member for Sub Occupation Safety and Health (SOSHCo) Fire Safety. 2012 – 2015
3. Facilitator for Young Women's leadership program organized by the Perak State Women's Empowerment Council in collaboration with UiTM Perak. 2014
4. Committee member for FSPU Dean's Award Ceremony (diploma). 2014
5. Committee member for builders carrier development programme. 2014
6. Committee member for report preparation workshop and practical training briefing. 2014
7. Committee member (logistic) for Iftar ceremony with Rektor. 2014
8. Committee member (logistic) for MPG Programme (Diploma FSPU). 2014
9. Diploma in Building Alumni Coordinator. 2014
10. Committee member (protocol) for external examiner visit to UiTM Perak. 2014
11. Committee member for Strategic Planning and Space, FSPU UiTM. 2013
12. Diploma in Building Alumni Coordinator. 2013 – 2014
13. Diploma in Building Timetabling Coordinator. 2012 – 2013
14. Committee Member for curriculum review (Diploma in Building UiTM Perak). 2013
15. Committee Member for FSPU Dean's Award Ceremony (bachelor’s degree). 2013
16. Committee Member for 78th UiTM’s convocation ceremony. 2013
17. Committee Member for Program Himpuan Orang Asli Bersama Perdana Menteri dan Pelancaran Program Mengubah Destini Orang Asli. 2013
18. Appointment as Resource person for BLD310/DBN314 (Building Construction V). 2011 – 2013
19. Committee member for campus curriculum UiTM Perak - Bachelor of Science in Construction Technology (IBS). 2012 – 2014
20. Facilitator for LPPKP and KI. 2012 – 2015
21. Committee member for Galeri Al-Faradli FSPU UiTM Perak. 2013
22. Committee member (invitation) for industrial interweaving program with IKM. 2012
23. Logistic Committee member for Iftar Ceremony with UiTM Vice Chancellor. 2012
24. Editor for Diploma in Building Practical Training Colloquium. 2012

25. Committee member (protocol and event management) for Diploma in Building Practical Training Colloquium. 2012
26. Committee member for the development of the new programme - Bachelor of Science in Construction Technology. 2011
27. Mentor mentee program and academic advisor Coordinator. 2011 – 2012
28. Committee member for the preparation of the code of practice for programme accreditation (COPPA) Diploma in Building. 2011
29. Practical Training Coordinator 2009 – 2010
30. Program Director for Academic Discourse – 2010
31. Students' Academic Advisor – 2008 – 2015
32. Students' Society Advisor -2008

## Work and Collaboration Experience

Pavillion Now project, SGFA. 2016

## Awards & Recognitions

## Contribution to Society

Volunteer for Mercy Malaysia – Jan 2015

## Other Activities

### Appointment as Jury

1. International Invention, Innovation, and Design Exposition 2023 (IIIBEEEX 2023), UiTM Puncak Alam, Selangor.
2. 7th International Built Environment Undergraduate Research Competition (BEURC) 2022, Universiti Malaya. Kuala Lumpur.
3. International Jasin Multimedia & Computer Science Invention & Innovation Exhibition 2022 (i-JaMCSIIX 2022), UiTM Melaka.
4. 5th International Building Control Conference (IBCC) 2021, Universiti Malaya.
5. International Jasin Multimedia & Computer Science Invention & Innovation Exhibition 2020 (i-JaMCSIIX 2020), UiTM Melaka.
6. Melaka International Intellectual Exposition 2019 (MiiX2019)
7. National Landscape Architectural Seminar (UMRAN 2019), International Islamic University Malaysia.
8. National Innovation & Invention Competition 2019 (NIICe2019)

### Appointment as Reviewer

1. International Journal of Sustainable Construction, 2023.
2. Journal of Engineering Science & Technology (JESTEC), 2023.
3. Journal of Construction in Developing Countries, 2023.
4. 3rd International Conference on Built Environment and Engineering, 2022.
5. IGI Global Book Chapters, 2022.
6. International Journal of Sustainable Tropical Design Research and Practice, 2022.
7. Malaysian Construction Research Journal (MCRJ), 2017.

Appointment as CIDB certified IBS trainer: -

1. CIDB Module 1 – Introduction to Industrialised Building System
2. CIDB Module 2 – Modular Coordination
3. CIDB Module 3 – IBS smart calculator and catalogue
4. CIDB Module 4 – Precast System
5. CIDB Module 5 – IBS project management