

## NOOR AKMAL ADILLAH ISMAIL (Sr, Dr.)

Senior Lecturer

School of Construction and Quantity Surveying  
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## Areas of Expertise

Building Information Modelling (BIM), Sustainable Construction, Construction Management

<https://expert.uitm.edu.my/profile.php?id=guJott7VW80c52DR0AByg7UGiW8uIhgCqJBR6CKoqi0=>  
<https://www.scopus.com/authid/detail.uri?authorId=57204615143>  
<https://www.webofscience.com/wos/author/record/2146722>  
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<https://scholar.google.com/citations?user=JjB-P0cAAAAJ&hl=en>  
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## Personal Information

Sr Dr. Noor Akmal Adillah Ismail  
Studies of Quantity Surveying  
Research Interest Group: Contract, Procurement & Management System (CP-MS)  
Research Nexus UiTM (ReNeU): Social, Creativity & Innovation (SCI)

## Academic Qualifications

Doctor of Philosophy (PhD) in Project Management and Procurement, 2017, Queensland University of Technology (QUT), Brisbane, Australia  
Master's Degree in Construction Management, 2006, Universiti Teknologi Malaysia (UTM), Skudai, Malaysia  
Bachelor's Degree in Quantity Surveying, 2004, Universiti Malaya (UM), Kuala Lumpur, Malaysia

## Professional Members

1. Board of Quantity Surveyors Malaysia (BQSM), Provisional Quantity Surveyor (PVQS), 2018-2022
2. Board of Quantity Surveyors Malaysia (BQSM), Professional Quantity Surveyor (PQS), 2022-now
3. Royal Institution of Surveyors Malaysia (RISM), Member, 2022-now

## Teaching and Learning

1. Measurement of construction works IV (BQS551), Lecture & tutorial
2. Construction Technology I (BQS402), Lecture & tutorial
3. Construction Technology II (QSM452), Lecture
4. Construction Technology III (QSM502), Lecture
5. Construction Technology V (QSM/BQS602), Lecture
6. Analysis of Prices II (BQS458), Lecture
7. Building Services II (QSM/BQS554), Lecture
8. Building Services III (QSM605), Lecture
9. Sustainable Construction (BQS568), Lecture
10. Computer Aided Design and Drawing (BQS516), Lecture
11. Research Methodology (QSM514), Lecture
12. Applied Studies I (QSM612), Facilitation
13. Applied Studies II (QSM662), Facilitation
14. Dissertation (QSM/BQS664), Supervision

## Student Supervision

### PhD thesis:

1. Muhammad Fauzi Ismail, Optimizing Risk Mitigation in Malaysian Construction Projects through BIM Implementation and Integration, Main Supervisor – on-going
2. Elma Dewiyana Ismail, A Framework for Facility Manager's Competency in Managing Building Information Modelling Based Projects, Main Supervisor – on-going
3. Nur Aisyah Azmi, BIM-FM Integrated Framework in Improving FM Information Delivery Life Cycle, Main Supervisor – on-going
4. Izatul Syima Abdul Rahman, BIM-POE Framework for Interior Design Project in Malaysia, Main Supervisor – on-going
5. Azreen Ariff Zulkeflee, Development of Assessment Framework for Malaysian Construction Site Safety Culture, Co-Supervisor – on-going
6. Mysarah Maisham, A Procedural Framework for Life Cycle Costing Application in Green Projects for Effective Decision Making, Co-Supervisor – on-going
7. Hasmawiah Mad Kaidi, A Model for Learning Construction Quality in Civil Engineering Undergraduate Programme, Co-Supervisor – on-going

### MSc (by research) thesis:

1. Ilya Sufaira Hasbullah, Smart Lean-BIM Collaborative Framework in Harnessing Sustainability for Construction Projects in Malaysia, Main Supervisor – on-going

2. Nur Irissa Afiqah Ismail, IBS-BIM Integrated Framework for Industrializing Construction Strategies, Main Supervisor – on-going
3. Muhammad Akmal Hafiz Mohamad, Integrative Assessment Framework of Building Information Modelling (BIM) and Sustainable Design for Green Highway Construction, Main Supervisor – on-going
4. Noorlisa Hafiza Mohd Johari, Strategising Innovation in Sustaining Business among QS Firms, Main Supervisor – on-going

**MSc (coursework) dissertation:**

1. Mohammad Azlan Kayat, Assessment on Measurement Software by Quantity Surveying Firms in Malaysia), Supervisor – completed
2. Mohd Zul Aswad Zulkifli, A Study of Building Information Modelling (BIM) Adoption Amongst SMEs Contractors in the Malaysian Construction Industry, Supervisor – completed
3. Bibi Nur Basirah Baharun, Improving Safety Climate in the Malaysian Construction Industry through the Implementation of Building Information Modelling (BIM), Supervisor – completed
4. Mohd Faris Aiman Abdul Rahman, Barriers for Practicing Building Information Modelling in Facilities Management in Public Works Department, Supervisor – completed
5. Umi Nor Faizatul Akma Hariz Joseph, Readiness on the Usage of Building Information Modelling (BIM) on Heritage Building Projects under PWD Malaysia, Supervisor – completed
6. Nur Shuhada Nasaruddin, Added Value of Facilities Management Information through BIM Integration, Supervisor – completed
7. Muhammad Fauzi Ismail, Mitigating Risk through Building Information Modelling (BIM) Technology for Construction Projects in Malaysia, Supervisor – completed
8. Nur Shahirah Abdul Halim, Building Information Modelling (BIM) Coordination Strategies in Improving Construction Project Life Cycle, Supervisor – completed
9. Roger Sum Anak Sulau. Strategies in Bridging the Digital Gap of BIM Adoption in Sarawak, Malaysia Supervisor – on-going

**Undergraduate dissertation (2020 onwards):**

1. Nurul Fakhriah Zakaria, BIM Adoption in Improving Accuracy for Cost Estimating Practice amongst Malaysian Quantity Surveyors – completed
2. Muhammad Hafiz Zabidin, BIM Technology for Design & Build Procurement Delivery Method amongst Malaysian Contractors – completed
3. Liyana Rosli, BIM Implementation for Building Heritage and Conservation in Malaysia – completed
4. Wan Maizatun Wan Kamaruzaman, A Study of Building Information Modelling (BIM) Software for Cost Estimating Used by the Malaysian Quantity Surveyors – completed
5. Mohd Nazareth Mohd Yousof, The Adoption of BIM Technology in Managing Construction Risks amongst Malaysian Quantity Surveyors – completed
6. Ros Syahirah Zakaria, Improving Building Measurement Take-Off Process through BIM Digital Solution – completed
7. Nuraqilla Japlan, Authority's Efforts towards the Implementation of BIM in the Construction Industry in Sabah – completed
8. Sharifah Fitrah Tuanku Karim, Adopting Building Information Modelling (BIM) in Industrialised Building System (IBS) Application in the Malaysian Construction Industry – completed
9. Shafiyah Wan Md Suhaimi, Awareness on Heritage Building Information Modelling (H-BIM) by Construction Industry Players – completed
10. Siti Hawa Sharipudin, Integration of BIM and UAV Technology in Construction projects in Malaysia – completed

11. Muhammad Akmal Hafiz Mohamad, BIM for Green Practices in the Malaysian Construction Industry – completed
12. Muhammad Fakhrol Islam Roslan, The Readiness Level among the University Students regarding BIM Software – completed
13. Hafiz Syafiy Hussaini, The Effects of Lean Construction Process (LCP) and Building Information Modelling (BIM) on Design Management in Malaysian Construction Industry: Contractors' Perspective – completed
14. Mohammad Hazim Salleh, Building Information Modelling as A Project Management Tool Improving Delivery of Complex Construction Project – completed
15. Umi Umira Mohamad, The Risk Implementing BIM Software in the Malaysian Construction Industry – completed
16. Christizer Tinda Kinchang, The Adoption of Building Information Modelling by Quantity Surveyors in Sarawak – completed
17. Tengku Muhammad Azamuddin Tengku Seman, Traditional Vs BIM-Based Cost Estimating Method: Malaysian Quantity Surveyors Perspectives – completed
18. Noor Hidayah Bahari, BIM Competencies for Project Manager in the Malaysian Construction Industry – completed
19. Madhiha Izzati Mohd. Ashri, The Impact of Emerging New Technologies towards Quantity Surveying Profession in Malaysia – completed
20. Nur Fadhilah Mohd Azian, Capabilities of Building Information Modeling (BIM) Software towards Quantity Surveying Practice in the Malaysian Construction Industry – completed
21. Nurul Izzah Ishak, Benefits and Challenges of BIM Implementation during Pandemic – completed
22. Dyg Nur Afifah Abg Mohammad Montaha, Implementation of HBIM in Restoration Works of Heritage Mosques in Malaysia – completed
23. Balqis Batrisyia Izaidi @ Mohd Izaidi, The Implementation of Building Information Modelling (BIM) in the Malaysian Public Works Department – completed
24. Amin Alias, BIM Implementation in PWD Projects towards Cost Control and Time Overruns – completed
25. Ungku Nur Khaliqah Ungku Kamarzaman, Soft Skills Development Using BIM Software among Quantity Surveyors in the Malaysian Construction Industry – completed
26. Affiah Mohd Fadzil, Current Practice and Challenges of Building Information Modelling (BIM) for Facilities Management – completed
27. Rohaniza Roslee, Building Information Modelling (BIM) in Minimizing Design Error for Construction Projects: Perspectives of Construction Industry Players – completed
28. Siti Nur Adibah Mohamad Nafis, Mitigating the Challenges in Adopting BIM Compatible Software for Small QS Firms – completed
29. Muhammad Rauf Mohd Razif, BIM-Based Software Cost Estimating Method: Malaysian Quantity Surveyor Perspectives – completed
30. Nur Aisyah Noorazimi, The Implementation of BIM in Controlling Construction Project Cost: Quantity Surveyors' Perspectives – completed
31. Nur Aina Adila Mohd Fadzani, Building Information Modeling (BIM) Return on Investment (ROI) in Construction Industry – completed
32. Nur Izyan Hamzah, The Importance of Building Information Modelling (BIM) in Promoting Sustainable Development in Malaysia – completed
33. Aliff Najwan Mohd Fahmy, Building Information Modelling (BIM) to Expedite Measurement Process – completed

34. Whyda Wahdira Azhar, The Impact of BIM Implementation in Improving Design Deficiency on Building Maintenance – completed
35. Ahmad Hazim Ahmad Bakhtiar, The Implementation of Building Information Modelling (BIM) for Quality Control in Construction Projects – completed
36. Nadiah Aqilah Hamid, Building Information Modelling (BIM) Implementation in Improving Communication for Project Management – completed

## Publications

### Paper in indexed journal (SCOPUS/ISI/MyCite, etc.)

1. Azmi, N. A., **Ismail, N. A. A.** & Rosman, A. A. (2023). A Systematic Review on Barriers in Integrating Building Information Modelling (BIM) in Facilities Management (FM). Malaysian Construction Research Journal (MCRJ). – co-author
2. **Ismail, N. A. A.**, Rooshdi, R. R. R. M., Sahamir, S. R. & Marhani, M. A. (2023). A Systematic Literature Review on BIM-based Facilities Management towards Sustainable Construction. Chemical Engineering Transactions, 106. - main author
3. Mohamad, M. A. H., **Ismail, N. A. A.** & Rooshdi, R. R. R. M (2023). Challenges of Integrating Building Information Modelling (BIM) into Sustainable Design for Green Highway Construction. Chemical Engineering Transactions, 106. – co-author
4. **Ismail, N. A. A.**, Hasbullah, I. S., Marhani, M. A., Rooshdi, R. R. R. M., Sahamir, S. R. & Golizadeh, H (2023). Lean-BIM Collaborative Approach for Sustainable Construction Projects in Malaysia. Journal of Advanced Research in Applied Sciences and Engineering Technology. - main author
5. Rafidi, A. A. A., Marhani, M. A., Rooshdi, R. R. R. M., **Ismail, N. A. A.** & Sahamir, S. R. (2023). Challenges of Implementing Effective Solid Waste Management in Construction Projects. Jurnal Penyelidikan Sains Sosial (JOSSR), 6(18), 1-7. – co-author
6. Zulkeflee, A. A., Faisol, N., Ismail, F., & **Ismail, N. A. A.** (2023). Hesitance to Change Behaviour: Key Factors of Construction Foreign Workers' Safety Non-Compliances. Malaysian Construction Research Journal (MCRJ), 19(2), 36-50.
7. Idris, N. H., Mahbub, R., Hashim, N., Baharuddin, H. E. A., & **Ismail, N. A. A.** (2023). An Empirical Study on the Current Implementation of Innovative Technologies in the Malaysian Construction Industry-A Pilot Study. Malaysian Construction Research Journal (MCRJ), 19(2), 128-143.
8. **Ismail, N. A. A.**, Baharun, B. N. B., Adnan, H., Maisham, M. & Mahat, N. A. A. (2022). Improving Safety Climate in the Malaysian Construction Industry through Building Information Modelling (BIM) Capabilities. Malaysian Construction Research Journal (MCRJ), 37(2), 53-62. - main author
9. Baharuddin, H. E. A., **Ismail, N. A. A.**, Adnan, H., Ismail, W. N. W. & Piri, I. (2022). Assessing Internal Early Preparation through Stakeholder Engagement Process for Infrastructure Projects. Malaysian Construction Research Journal (MCRJ), 37(2), 29-37.– co-author
10. Ibrahim, I. H., Karim, S. F. T., **Ismail, N. A. A.** & Jamaludin, S. Z. H. S. (2022). Adopting Building Information Modelling (BIM) into Industrialised Building System (IBS) in Malaysian Construction Industry. Journal of Smart Science and Technology, 2(2), 40-51. – co-author
11. Zulkeflee, A. A., Faisol, N., Ismail, F. & **Ismail, N. A. A.** (2022). Safety Compliances Enhancement: Foreign Labours Behaviour in the Malaysian Construction Site. Journal of Construction in Developing Countries, 27(1), 153-171. – co-author

12. Zulkeflee, A. A., Faisol, N., Ismail, F. & **Ismail, N. A. A.** (2022). Factors Influencing Foreign Workers' Unwillingness to Practise Safety in The Malaysian Construction Sites. *Asian Journal of Research in Business and Management*, 4(1), 248-257. – co-author
13. Kamil, A. I. M., **Ismail, N. A. A.**, Hassan, A. A., Rooshdi, R. R. R. M. & Marhani, M. A. (2022). Satisfaction of Quantity Surveying Students towards Online Distance Learning (ODL) during Covid-19 Pandemic. *Asian Journal of University Education*, 18(2), 422-429. – co-author
14. Jamaludin, S. Z. H. S., **Ismail, N. A. A.**, Ibrahim, I. H. & Japlun, N. (2022). The Emerging Challenges of Adopting BIM in the Construction Industry: Evidence from Sabah, Malaysia. *Journal of Smart Science and Technology*, 2(1), 1-14. – co-author
15. Rooshdi, R. R. R. M., **Ismail, N. A. A.**, Sahamir, S. R. & Marhani, M. A. (2021). Integrative Assessment Framework of Building Information Modelling (BIM) and Sustainable Design for Green Highway Construction: A Review. *Chemical Engineering Transactions*, 89, 55-60. – co-author
16. Sahamir, S. R., **Ismail, N. A. A.**, Rooshdi, R. R. R. M. & Zainordin, Z. M. (2021). Barriers Impeding the Adoption of Information and Communication Technology (ICT) in Construction Project Management. *International Journal of Integrated Engineering*, 13(5), 211-219. – co-author
17. **Ismail, N. A. A.**, Mohd Yousof, M. & Adnan, H. (2021). BIM Adoption in Managing Construction Risks Amongst Malaysian Quantity Surveyors: Current Practice and Challenges. *International Journal of Sustainable Construction Engineering and Technology (IJSKET)* 12 (3), 166-175. – main author
18. Marhani, M., Muhammad Othman, N. & **Ismail, N. A. A.** (2021). Issues and Impact of Lean Construction Implementation in The Malaysian Construction Industry. *International Journal of Sustainable Construction Engineering and Technology (IJSKET)* 12 (3), 258-268. – co-author
19. Marhani, M. A., Maisham, M., Adnan, H. & **Ismail, N. A. A.** (2021). Identification of the Challenges of Life Cycle Costing in Green Construction Projects in Malaysia. *International Journal of Sustainable Construction Engineering and Technology*, 12(5), 116-124.
20. Wan Ismail, W. N. W., Adnan, H. & **Ismail, N. A. A.** (2021). Common Contractual Behaviour of Key Participants in Civil Engineering Projects. *International Journal of Sustainable Construction Engineering and Technology (IJSKET)* 12 (3), 227-235 – co-author
21. Ismail, E., Said, S., Jalil, M. & **Ismail, N. A. A.** (2021). Benefits and Challenges of Heritage Building Information Modelling Application in Malaysia. *Environment-Behaviour Proceedings Journal* 6(4). 178-184. – co-author
22. **Ismail, N. A. A.**, Rooshdi, R. R. R. M., Sahamir, S. R. and Ramli, H. (2021). Assessing BIM Adoption towards Reliability in QS Cost Estimates. *Engineering Journal* 25 (1), 155-164. – main author
23. Wan Ismail, W. N. W., Adnan, H., Baharuddin, H. E. A., **Ismail, N. A. A.** & Yaman, R. (2020). Contractual Behaviour in Civil Engineering Projects: Delay of Contractors Work Progress. *Malaysian Construction Research Journal (MCRJ)*, 10 (2). 199-211. – co-author
24. **Ismail, N. A. A.**, Idris, N., Ramli, H., Rooshdi, R. R. R. M. & Sahamir, S. R. (2018). Sustainable BIM-Based Cost Estimating for Quantity Surveyors. *Chemical Engineering Transactions* 63, 235-240. - main author
25. Rooshdi, R. R. R. M., Abd Majid, M., Sahamir, S. R. & **Ismail, N. A. A.** (2018). Relative Importance Index of Sustainable Design and Construction Activities Criteria for Green Highway. *Chemical Engineering Transactions* 63, 151-156. – co-author
26. Sahamir, S. R., Zakaria, R., Rooshdi, R. R. R. M., Adenan, M. M. A., Shamsuddin, S. M., Abidin, N., **Ismail, N. A. A.** & Aminudin, E. (2018). Multi-Criteria Decision Analysis for Evaluating Sustainable Lifts Design of Public Hospital Buildings. *Chemical Engineering Transactions* 63, 199-204. – co-author



27. Bakhary, N., Ibrahim, A. & **Ismail, N. A. A.** (2013). Critical Review on Improving the Claim Management Process in Malaysia. *Journal of Education and Vocational Research* 4 (7), 214-218. – co-author

#### **Paper in a professional journal/ magazine/ newspaper**

1. Zakaria, N. F., **Ismail, N. A. A.**, Kamil, A. I. M. & Zaki, Z. A. M. (2022). BIM Adoption in Improving Accuracy for Cost Estimating Practice Amongst Malaysian Quantity Surveyors. *International Surveying Research Journal (ISrJ)* Volume 9 (No. 1), 5-15. – co-author
2. Mohd Fauzi, N., Mohamad, N., Baharuddin, H. E. A. & **Ismail, N. A. A.** (2019). Investigation of Ethical Decision Making towards Ethical Issues in the Construction Industry. *The Malaysian Surveyor* Volume 54 (No. 3 & 4), 31-42. – co-author

#### **Proceeding paper**

1. Rooshdi, R. R. R. M., Nazaruddin, N. A., **Ismail, N. A. A.**, Sahamir, S. R. & Marhani, M. (2023). Challenges of implementing building information modeling (BIM) in green assessment tools. *AIP Conference Proceedings*, 2881 (1). – co-author
2. Sahamir, S. R., Ibrahim, F. D. Q., Zakaria, R., **Ismail, N. A. A.**, Rooshdi, R. R. R. M., Abidin, N. I. & Shamsuddin, S. M. (2023). Key barriers in managing construction site for green building projects. *AIP Conference Proceedings*, 2881 (1). – co-author
3. **Ismail, N. A. A.**, Zulkifli, M. Z. A., Baharuddin, H. E. A., Ismail, W. N. W. & Mustapha, A. A. (2022). Challenges of Adopting Building Information Modelling (BIM) Technology amongst SME's Contractors in Malaysia. *IOP Conference Series: Earth and Environmental Science* 1067 (1), 012047. - main author
4. **Ismail, N. A. A.**, Baharun, B. N. B., Adnan, H., Maisham, M. & Mahat, N. A. A. (2022). BIM Capabilities towards Better Safety Climate in the Malaysian Construction Industry. *IOP Conference Series: Earth and Environmental Science* 1067 (1), 012070. - main author
5. Baharuddin, H. E. A., **Ismail, N. A. A.**, Adnan, H., Ismail, W. N. W. & Piri, I. (2022). Cross case analysis on internal early preparation of stakeholder engagement for infrastructure projects. *IOP Conference Series: Earth and Environmental Science* 1067 (1), 012072. – co-author
6. Mahat, N. A. A., Adnan, H., Maisham, M. & **Ismail, N. A. A.** (2022). The Influential Factors Effects Schedule and Cost Performance toward Productivity Attainment in Green Construction Projects. *IOP Conference Series: Earth and Environmental Science* 1067 (1), 012029. – co-author
7. Maisham, M., Adnan, H., **Ismail, N. A. A.**, Mahat, N. A. A. & Yussof, F. N. M. (2022). Barriers in Implementing Life Cycle Costing in Malaysia's Green Construction Projects. *IOP Conference Series: Earth and Environmental Science* 1067 (1), 012067. – co-author
8. Rashid, Z. Z. A., Adnan, H., Hanafi, H., **Ismail, N. A. A.** & Yusuwan, N. A. M. (2022). Understanding the Effect of Movement Control Order during Covid-19 Pandemic on Contractors. *IOP Conference Series: Earth and Environmental Science* 1067 (1), 012069. – co-author
9. Ismail, W. N. W., Adnan, H., Masrom, M. A. N., Baharuddin, H. E. A. & **Ismail, N. A. A.** (2022). Unauthorised Instructions in Civil Engineering Project: Contributing Factors. *IOP Conference Series: Earth and Environmental Science* 1067 (1), 012039. – co-author
10. Zulkeflee, A., Faisol, N., Ismail, F. & **Ismail, N. A. A.** (2021). Enhancement of Safety Compliance Behaviour among Foreign Labour in Malaysia. *Exploring Contemporary Issues and Challenges in the Construction Industry: (2021), Coventry, United Kingdom, 17 March 2021*, 86-90. – co-author

11. **Ismail, N. A. A.**, Adnan, H. & Bakhary, N. (2019). Building Information Modelling (BIM) Adoption by Quantity Surveyors: A Preliminary Survey from Malaysia. IOP Conference Series: Earth and Environmental Science, 267, p.052041. - main author
12. **Ismail, N. A. A.**, Ramli, H., Ismail, E., Rooshdi, R. R. R. M., Sahamir, S. R. & Idris, N. (2019). A Review on Green BIM Potentials in Enhancing the Construction Industry Practice. MATEC Web of Conferences, 266, p.01023. - main author
13. **Ismail, N. A. A.**, Maisham, M., Zaki, Z., Rooshdi, R. R. R. M., & Sahamir, S. R. (2019). The mediating effects of cost estimates reliability on BIM adoption: SEM model analysis. IOP Conference Series: Earth and Environmental Science 385 (1), 012070. - main author
14. Maisham, M., Adnan, H., **Ismail, N. A. A.** & Mahat, N. A. A. (2019). Developing a Research Methodology for Life Cycle Costing Framework for Application in Green Projects. IOP Conference Series: Earth and Environmental Science 385 (1), 012066. – co-author
15. Zaki, Z. A. M., Kamil, A. I. M., Saidin, M. T., **Ismail, N. A. A.** & Janipha, N. A. I. (2019). Barriers of Life Cycle Costing on Construction Consultant Practice in Malaysia. IOP Conference Series: Earth and Environmental Science 385 (1), 012061. – co-author
16. Sahamir, S. R., Zakaria, R., Rooshdi, R. R. R. M., **Ismail, N. A. A.** & Zainordin, Z. (2019). Key Influencing Factors for Green Public Hospital Building Development in Malaysia. MATEC Web of Conferences 266, 01025. – co-author
17. **Ismail, N. A. A.**, Idris, N., Ramli, H., Rooshdi, R. R. R. M. & Sahamir, S. R. (2018). The Relationship between Cost Estimates Reliability and BIM Adoption: SEM Analysis. IOP Conference Series: Earth and Environmental Science, 117, p.012045. - main author
18. **Ismail, N. A. A.**, Chiozzi, M. & Drogemuller, R. (2017). An Overview of BIM Uptake in Asian Developing Countries. AIP Conference Proceedings 1903, 080008. - main author
19. **Ismail, N. A. A.**, Drogemuller, R., Beazley, S. & Owen, R. (2016). A Review of BIM Capabilities for Quantity Surveying Practice. MATEC Web of Conferences (Vol. 66, p. 00042). EDP Sciences. - main author
20. **Ismail N. A. A.**, Utiome E., Owen R. & Drogemuller, R. (2015). Exploring Accuracy Factors in Cost Estimating Practice towards Implementing Building Information Modelling (BIM). 6th International Conference on Engineering, Project, and Production Management (EPPM2015), 2nd – 4th September, Gold Coast, Queensland, Australia, 364–373. - main author
21. **Ismail, N. A. A.**, Owen, R. & Drogemuller, R. (2015). Cost Estimating Practice Incorporating Building Information Modelling (BIM): Malaysian Quantity Surveyors Perspectives. The 7th International Conference of SuDBE2015, Reading, UK; 27-29 July. - main author

## **Chapter In Book**

1. **Ismail, N. A. A.**, Baharuddin, H. E. A. & Adnan, H. (2021). BIM Awareness and Usage VS BIM Knowledge, Importance and Future Planning: An Analysis from Malaysian Quantity Surveyors. Collaboration and Integration in Construction, Engineering, Management and Technology. Springer, Cham, 2021. 521-525. - main author
2. Baharuddin, H. E. A., Othman, A., Adnan, H. & **Ismail, N A. A.** (2021). Evaluating the Influence of Training on Attitudes to Building Information Modelling (BIM) Adoption in Malaysian Construction Industry by using Extended Technology Acceptance Model (TAM). Collaboration and Integration in Construction, Engineering, Management and Technology. Springer, Cham, 2021. 577-582. – co-author
3. Adnan, H., Mokhtaruddin, M., Nordin, M., **Ismail, N. A. A.** & Baharuddin, H. E. A. (2021). Safety Management amongst Small Contractors in Selangor, Malaysia. Collaboration and Integration in Construction, Engineering, Management and Technology. Springer, Cham, 2021. 509-513. – co-author



## Research Grants and Contracts

1. Supervision Initiative Grant UiTM (2022-2023), RM21,600, A Framework of BIM-FM Information Requirement System for Healthcare Facilities Management in Malaysia - principal investigator
2. Fundamental Research Grant Scheme (FRGS) (2021-2024), RM 83,000, Integrated Building Information Modelling-Cost Benefit Analysis (BIM-CBA) for Public Projects – project member
3. Special Grant UiTM (2020-2022), RM 20,000, IBS-BIM Integrated Framework for Industrializing Construction Strategies – project member
4. Fundamental Research Grant Scheme for Research Acculturation of Early Career Researchers (FRGS-RACER) (2019-2021), RM 25,200, Smart Lean-BIM Collaborative Framework in Harnessing Sustainability for Construction Projects in Malaysia - principal investigator
5. Fundamental Research Grant Scheme (FRGS) (2019-2022), RM54,200, Life Cycle Costing (LCC) Framework for Effective Decision Making in Green Projects – project member
6. Research Intensive Faculty Grant (RIF) (2012-2014), RM 7,506.54, Risk Management for Public Private Partnerships (PPPS) In Malaysia – project member
7. Research Intensive Faculty Grant (RIF) (2012-2014), RM 7,157.56, Pricing and Bidding Approaches amongst Contractors in Malaysian Construction Industry – project member
8. Research Intensive Faculty Grant (RIF) (2012-2014), RM 19,608.30, Claim Management Framework for Contractors: Improving the Claim Management Process - principal investigator
9. Excellence Fund (DKCM) (2011–2012), RM 5,000.00, Customers' Satisfaction towards Workmanship and Quality Performance of Low-Cost Housing in Sarawak – project member
10. Excellence Fund (DKCM) (2009–2012), RM 4,990.00, The Knowledge of Contractors on the Non-adversarial Dispute in Kuching, Sarawak - principal investigator

## Consultation & Expertise

1. Board Member, Editorial Board for Royal Institution of Surveyors Malaysia (RISM), 2019-2020
2. Speaker, Glodon-Cubicost Bumiputera AEC Industry Seminar, BIM and Costing, September 2019
3. Speaker, Politeknik Sultan Salahuddin Abdul Aziz Shah, Workshop: Writing A Research Paper, July 2023
4. Resource Expert (*Pakar Rujuk*), Majlis Bandaraya Shah Alam (MBSA), *Kajian Pengurusan Projek Ke Arah Transformasi Digital dan Penggunaan Teknologi Terkini Untuk Majlis Bandaraya Shah Alam*, January-December 2023
5. Consultant, Majlis Bandaraya Shah Alam (MBSA), *Kajian Pengurusan Projek Secara Digital Untuk Majlis Bandaraya Shah Alam - (RM 271,942.80)*, August 2023-31 July 2024
6. Editor, Built Environment Journal (BEJ), UiTM, 2022 – now
7. Editorial Board Member, Journal of Basic & Applied Science, SET Publisher, 2022 – now
8. Research Grant Panel, Geran Dana UiTM Cawangan Selangor 2021 -2022
9. Research Grant Panel, Geran Kesenian & Kreativiti, Dana UiTM Cawangan Selangor (DUCS-KK) 2023
10. Reviewers for conference proceedings and journals

## **Innovation, Commercialization & Entrepreneurial**

1. A Strategy Framework of Cost Estimating Incorporating BIM for Quantity Surveyors International Invention, Innovation & Design UiTM Cawangan Negeri Sembilan (IIID UiTMCNS) 2018 – developer/presenter
2. National e-Content Development Competition 2018 (e-ConDev), Building Construction Fundamentals – developer/presenter
3. National e-Content Development Competition 2018 (e-ConDev), Building Services and Sustainability – developer/presenter
4. The International Virtual e-Content Development Competition 2022 (e-ConDev), Sustainable Construction (MOOC - Massive Open Online Course) – developer
5. The International Virtual e-Content Development Competition 2023 (e-ConDev), UMC239 - Introduction to Electrical Systems for Quantity Surveyors (MC – Micro Credential) – developer
6. The International Virtual e-Content Development Competition 2023 (e-ConDev), Woodworking Projects Guide - Machines and Tools (OER – Educator) – developer

## **Services & Administration**

1. FSPU Liaison Officer of Office of International Affair (OIA) UiTM, 2018-2020
2. FSPU Research Management Unit (RMU) Coordinator, 2020-2022
3. Pengerusi BERI (Built Environment Research and Innovation), 2023-2024

## **Work and Collaboration Experience**

1. Committee, 2018, Board of Quantity Surveyors Malaysia (BQSM), International Quantity Surveying Academic Forum (IQSAF)
2. Committee, 2022, ASEAN Quantity Surveyors Association (AQSA), ASEAN Quantity Surveying Association Academic Conference
3. Person In Charge (Agreement Manager), Memorandum of Understanding (MoU) Universiti Teknologi MARA-University of Canberra, Australia (2023-2025)

## **Awards & Recognitions**

1. Anugerah Penyelidik Harapan (Penyelidikan), CBEEEx 2022, Kolej Pengajian Alam Bina, Universiti Teknologi MARA, 2023.
2. Anugerah Perkhidmatan Cemerlang. Universiti Teknologi MARA. 2018.
3. Best Paper Award - International Conference on Research Methodology for Built Environment and Engineering (ICRMEE 2019), The Mediating Effects of Cost Estimates Reliability on BIM Adoption: SEM Model Analysis – main author/presenter
4. Bronze Medal - International Invention, Innovation & Design UiTM Cawangan Negeri Sembilan (IIID UiTMCNS) 2018, A Strategy Framework of Cost Estimating Incorporating BIM for Quantity Surveyors – developer/presenter
5. Silver Medal - National e-Content Development Competition 2018 (e-ConDev), Building Construction Fundamentals – developer/presenter

6. Silver Medal - National e-Content Development Competition 2018 (e-ConDev), Building Services and Sustainability – developer/presenter
7. Silver Award – 5th International Built Environment Undergraduate Research Competition (BEURC) 2020, Liyana Rosli, BIM Implementation for Building Heritage and Conservation in Malaysia) - supervisor
8. Platinum Award – International Invention, Innovation & Design Exposition for Built Environment and Engineering (IIIDBEEX) 2020, Mohd Nazareth Mohd Yousof, The Adoption of BIM Technology in Managing Construction Risks amongst Malaysian Quantity Surveyors – supervisor
9. Silver Award – 6th International Built Environment Undergraduate Research Competition (BEURC) 2021, Hafiz Syafiy Hussaini, The Impact of Lean Construction (LC) and Building Information Modelling (BIM) Application in Design Management amongst Malaysian Contractors – supervisor
10. Silver Award - The Virtual International e-Content Development Competition 2022 (e-ConDev), Sustainable Construction (MOOC) – developer
11. Best Paper Award – 10<sup>th</sup> International Conference on University Learning and Teaching (InCULT 2021), Satisfaction of Quantity Surveying Students towards Online Distance Learning (ODL) during Covid-19 Pandemic – co-author
12. Gold Award – 7th International Built Environment Undergraduate Research Competition (BEURC) 2022, Nurul Izzah Ishak, Benefits and Challenges of BIM Implementation during Pandemic – supervisor
13. Bronze Award – International Invention, Innovation & Design Exposition for Built Environment and Engineering (IIIDBEEX) 2023, BIM Education for Quantity Surveying Students Using REVIT Tools: Evaluating the Knowledge, Awareness and Perceptions – developer/presenter
14. Bronze Award - The Virtual International e-Content Development Competition 2023 (e-ConDev), Introduction to Electrical Systems for Quantity Surveyors (MC – Micro Credential) – developer
15. Gold Award - The Virtual International e-Content Development Competition 2023 (e-ConDev), Woodworking Projects Guide - Machines and Tools (OER - Educator) – developer

## Contribution to Society

1. Aktiviti Masyarakat Prihatin 2020, organized by Staff Development Committee, Centre of Studies for Quantity Surveying, FSPU UiTM Shah Alam, 2020, Participation.
2. CSR PERUBAHAN – CARE 4 U, organized by QS Students Association, Centre of Studies for Quantity Surveying, FSPU UiTM Shah Alam, 2018, Participation.

## Other Activities

N/A