h-index: 13 (SCOPUS)
Citations: 725 (by 691 documents)

RESEARCH ASSOC. PROF. TS. DR. MUHAMMAD AZZAM BIN ISMAIL

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Ajman University
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Web links:

ORCID

Scopus

Google Scholar

BIOGRAPHY

Muhammad Azzam Bin Ismail, Ph.D. in Built Environment (UNSW) is a Professional Technologist and Graduate Architect who specializes in green architecture and certification of green buildings. He designed and built a variety of buildings before joining University of Malaya (UM). At UM, he completed a low-cost showcase house on the UM campus that employs the Industrialised Building System and an active ageing habitation unit that is currently in use. He is now working on the Malaysian Green Building Council Carbon Score grading system as well as the design of the UM Master Plan 2050 and UM Smart City Master Plan. He was appointed as the UM Eco Campus Director to transform UM into a net zero carbon campus by 2030. Currently, he is a Research Associate Professor at Ajman University, UAE.

His grant-funded research focuses on low-carbon cities, the incorporation of sustainability knowledge into architectural education, zero-carbon building assessment, immersive architectural design processes using virtual reality technology, and the impact of green offices on building occupant behavior and work efficiency. His current research interests include 'Living Buildings,' which combine bio-facades to minimize indoor daylighting and thermal comfort levels, as well as lifecycle analyses of the supply chains of major food groups.

Previously, as the Head of the Department of Architecture at UM, he handled the re-accreditation of both the BSc in Architecture and the Master of Architecture by the Malaysia Board of Architects (LAM) in 2016 as well as their re-validation by the Royal Institute of British Architects (RIBA). He also oversaw further internationalisation of the department by conducting student exchanges with universities in Turkey, Germany and the UK, besides yearly heritage studies with students from the National University of Singapore and Chulalongkorn University, Thailand. From 2014 to 2016, he served as Chairman of the Malaysia Council of Heads of Architecture Schools, where he spearheaded the initiative to validate the qualifications of all architecture lecturers at Malaysian public universities, as well as mentoring new degree programs among member universities. He is now a registered LAM accreditation evaluator committee until 2027.

Besides teaching UM architecture courses, Azzam has taught in a number of international programs, including joint studio programs and workshops with Universitas Katolik Parahyangan, Institut Teknologi Bandung, Kyung Hee University, and Future University Sudan. Siti Nurafaf Ismail, who studied under his supervision, was awarded the Malaysia Institute of Architects (PAM) Travel Scholarship Award in 2018 and the RIBA Sir Norman Foster Travelling Scholarship in 2019. Recently, he was granted as an international exchange faculty at Ajman University, UAE, where he taught MSc in Urban Design courses and conducted research.

Furthermore, he served as Fellow and College Master at the Tun Syed Zahiruddin Residential College, UM, where he supervised a range of student-led leadership, cultural, and sporting events. He also oversaw Global Community Service projects in Indonesia, Cambodia, Vietnam and Thailand. Significantly, the We Are For You (WER4U) community engagement program that Azzam supervised was awarded the UMCARES Gold Medal in 2021. These accomplishments attest to Azzam's unwavering commitment to academic excellence and holistic student development.

AREAS OF EXPERTISE

- Green Architecture
- Green Building Rating
- Environmental Sustainable Design
- Architectural Education
- Urban Planning

INTELLECTUAL PROPERTY RIGHTS (IPR)

1. Sandwich Eco Brick – Industrial Design (IPR No. 2015051078)
2. Sandwich Eco Brick – Trademark (IPR No.2015051077)
3. *Soalan Temubual Pembangunan Model Baharu Masjid Orang Kelainan Upaya (OKU) Di Malaysia* (Questionnaire questions for the development of a new mosque model for the disabled) – Copyright (LY2023W05605)

AWARDS

1. First Place – Malaysia Structural Steel Association Open Ideas Competition (MSSA-OIC) 2024 Champion "Restoration and Innovation of Merdeka Stadium"
2. Best Research Paper, International Conference on Research and Innovation in Sustainable Cities 2022 (Paper title: Green architecture approach toward sustainable mosques in Malaysia)
3. UMCares Gold Award, 2020/2021 Academic Session – WER4U *Rintihan Anak Syurga*, 2021
4. Silver Award – International Research Innovation Invention Solution Exposition (IRIISE) at EUREKA 2018

ACADEMIC QUALIFICATION

- 2008-2012: PhD (Built Environment), University of New South Wales, Australia
- 2003-2005: Bachelor of Architecture Hons. (LAM/RIBA Part II), University of Malaya
- 1997-2000: Bachelor of Architectural Studies (LAM/RIBA Part I), University of Glasgow, United Kingdom

PROFESSIONAL QUALIFICATION & AFFILIATION

- Professional Technologist (PT 22100600) – Malaysia Board of Technologists (MBOT); 2022
- Graduate Architect (AG/M 506) – Malaysia Board of Architects (LAM); 2005
- Academic Member (AD 0602) – Malaysia Green Building Council (MGBC); 2021

WORK EXPERIENCE

1. Associate Professor, National University of Malaysia (UKM); Nov 2024 – Jan 2025
2. Inbound Exchange Faculty – Ajman University (UAE); Jan-June 2023
3. Senior Lecturer – University of Malaya; 2014 – Oct 2024
4. Lecturer – University of Malaya; 2012-2014
5. SLAI Fellow – University of Malaya; 2008-2012
6. Design Architect – Arkitek Pital, Sow & Allan (Kuala Lumpur, Malaysia); 2007
7. Design Architect – Pakatan Reka Arkitek (Kuala Lumpur, Malaysia); 2005-2007
8. Assistant Architect – AZR Architects Sdn. Bhd. (Alor Setar, Malaysia); 2002-2003
9. Assistant Architect – Graham & Sibbald Chartered Surveyors (Glasgow, UK); 2000-2002

ADMINISTRATIVE APPOINTMENTS

1. UM Eco Campus Director; 20/06/2024 to 19/06/2026
2. Editor-In-Chief, Journal of Design and Built Environment (SCOPUS, 72nd percentile, Q2); 21/03/2024 to 31/10/2024
3. Head – Department of Architecture; 2014-2018
4. Chairman – Council of Heads of Malaysian Architecture Schools (COHAS); 2014-2016
5. Committee member – Council of Architectural Accreditation and Education Malaysia (CAAEM); 2014-2016

5. Third Place (Immersive face-to-face learning category) – *Anugerah Pendidikan dan Reka Bentuk Semula Pendidikan Tinggi Malaysia* (APRS) 2017, Ministry of Higher Education Malaysia, 2017
6. Bronze Award – INDES2017, UiTM Perak, 2017
7. Excellence Service Award, University of Malaya, 2018 & 2021
8. Certificate of Excellent Service, University of Malaya, 2016
9. Certificate of Excellence in Sustainability, UMCARES, 2014
10. Postgraduate Research Student Support (PRSS) Travel Funds - Round 2 2010, Graduate Research School, University of New South Wales, Sydney, Australia, 2010
11. Postgraduate Research Student Support (PRSS) Travel Funds - Round 2 2009, Graduate Research School, University of New South Wales, Sydney, Australia, 2009
12. Academic Prize, Malaysia Board of Architects (LAM), 2005
13. Excellent Student Award, Faculty of Built Environment, University of Malaya, 2005
14. Excellent Student Award, Malaysia Institute of Architects (PAM), 2005

RESEARCH PROJECTS (Total grants: MYR 1,205,487.31)

6. Editorial Board Member – Urbanization, Sustainability and Society (Emerald); from 14/09/2023
7. Accreditation Evaluator – LAM's Council of Architectural Accreditation & Education Malaysia (MAPS), 06/08/2022 to 05/08/2027
8. Felo Integriti Fakulti Alam Bina; 2022-2025
9. UM 9th Residential College Master; 2019-2021
10. UM 9th Residential College Secretary; 2013-2019
11. UM 9th Residential College Fellow; 2011-2019
12. Faculty of Built Environment promotions committee member; 2020-2021
13. Faculty of Built Environment postgraduate degrees committee member; 2019-2020
14. Faculty of Built Environment UMEC entrepreneurship coordinator; 2016-2018
15. Faculty of Built Environment undergraduate degrees committee member; 2013-2014

JOURNAL PUBLICATIONS – 48

1. Deng, H., Sulaiman, R. and Ismail, M.A. (2025). Biophilic Design and Children's Well-Being in Kindergartens in Henan, China: A PLS-SEM Study. *Buildings*. 15(9), 1548. DOI: https://doi.org/10.3390/buildings15091548 (SCIE/SCOPUS)
2. Mahadzir, M.S. and Ismail, M.A. (2025). Effectiveness of Passive Design Elements in a Malaysian Modernist Tropical Cottage. *Journal of Design and Built Environment.* 25(1). DOI: https://ejournal.um.edu.my/index.php/jdbe/article/view/55968 (SCOPUS; CA)
3. Deng, H., Ismail, M.A. and Sulaiman, R. (2025). Exploring the Impact of Biophilic Design Interventions on Children's Engagement with Natural Elements. *Sustainability*. 17(7), 3077. DOI: https://doi.org/10.3390/su17073077 (SCIE/SCOPUS; CA)
4. Li, Y., Ismail, M.A. and Aminuddin, A.M.R. (2025). The Lost View: Villager-Centered Scale Development and Validation Due to Rural Tourism for Traditional Villages in China. *Sustainability*. 17(6), 2721. DOI: https://doi.org/10.3390/su17062721 (SCIE/SCOPUS; CA)
5. Deng, H., Sulaiman, R. and Ismail, M.A. (2024). Enhancing children's health and well-being through biophilic design in Chinese kindergartens: A systematic literature review. *Social Sciences & Humanities Open*. 10. DOI: https://doi.org/10.1016/j.ssaho.2024.100939 (SCOPUS)
6. Chohan, A.H., Awad, J., Ismail, M.A. and Arar, M.S. (2024). Integrating technology and heritage design for climate resilient courtyard house in arid region. *Civil Engineering Journal (Iran)*. 10(3). DOI: https://doi.org/10.28991/CEJ-2024-010-03-018 (ESCI/SCOPUS)
7. Jung, C., Awad, J., Ismail, M.A. and Chohan, A.H. (2024). Correlating temperature, airtightness, and pollutant concentrations: Insights into

1. UMLLP LL2024JNZ007: Towards Just Net Zero: Establishing a Greenhouse Gas Management Framework for Universiti Malaya. (Co-Researcher), 02/12/2024 to 01/12/2025. MYR 30,000

2. FRGS FP059-2022: *Pembangunan model baharu model masjid mesra orang kelainan upaya (OKU) di Malaysia* / A new model for disabled friendly mosques in Malaysia (Co-Researcher), 01/09/2022 to 31/08/2024. MYR 62,500

3. UMLLP LL2024SDG001: NetZero nexus: Unifying big data repository for Lembah Pantai and Petaling Jaya. (Co-Researcher), 01/01/2024 to 31/12/2024. MYR 49,910

4. FRGS: Enhancement of physical indoor environment at Malaysian Juvenile Institutions towards adolescents' well-being. (Co-Researcher), 01/11/2020 to 31/10/2023. MYR 117,800

5. UMLLP RUU2022-LL004: Smart daylight system for a design studio. (Principal Investigator), 01/03/2022 to 28/02/2023. MYR 9,000

6. KTP RUU2021-DIY(4): Indoor Daylighting Through Software In Line With Stem Educational Method. (Principal Investigator), 17/08/2021 to 31/12/2022. MYR 5,000

7. FRGS FP117-2018: Towards Immersive Architectural Design Process: Interface, Interaction and Intelligence. (Co-Researcher), 01/12/2018 to 31/08/2020. MYR 10,000

8. UMRG RP051C-17HTM: Investigating the multi-ethnic indoor air quality in Ajman apartment buildings. *Future Cities and Environment*. 10(1): 3, 1-16. DOI: https://doi.org/10.5334/fce.211 (SCOPUS)

8. Li, Y., Ismail, M.A. and Aminuddin, A.M.R. (2024). How Has Rural Tourism Influenced the Sustainable Development of Traditional Villages? A Systematic Literature Review. *Heliyon*. DOI: https://doi.org/10.1016/j.heliyon.2024.e25627. (SCIE; CA)

9. Jung, C., Ismail, M.A., Arar M. and Alqassimi, N. (2024). Mitigating Indoor Air Pollution in UAE's High-rise Apartment Buildings: A Study on Eco-Friendly Materials and Adsorbents. *Smart and Sustainable Built Environment*. DOI: https://doi.org/10.1108/SASBE-09-2023-0269. (SCOPUS)

10. Jung, C., Awad, J., Ismail, M.A. and Chohan, A.H. (2023). Enhancing Urban Sustainability through Green Roofs: A Thermal Performance Evaluation in Dubai. *Future Cities and Environment,* 9(1): 19, 1–12. DOI: https://doi.org/10.5334/fce.206. (SCOPUS)

11. Ismail M.A., Abdul Rashid F. (2023). Green architecture approach toward sustainable mosques in Malaysia, JURNAL KEJURUTERAAN. 35(3), 693-698. doi.org/10.17576/jkukm-2023-35(3)-17 (ESCI; CA/FA)

12. Bramiana, C. N., Aminuddin, A. M. R., Ismail, M. A., Widiastuti, R., & Pramesti, P. U. (2023). The Effect of Window Placement on Natural Ventilation Capability in a Jakarta High-Rise Building Unit. BUILDINGS, 13(5), 1141. doi.org/10.3390/buildings13051141 (SCIE; CA)

13. Bramiana C.N., Aminuddin A.M.R., Ismail M.A. (2022). Investigating natural ventilation performance on apartment units in Jakarta based on field test measurements, Journal of Design and Built Environment. 22(3), 140-186. (SCOPUS; CA)

14. Al-Obaidi, Karam M.; Al-Duais, Husam S.; Alduais, Nayef A. M.; Alashwal, Ali; Ismail, Muhammad Azzam (2022). Exploring the environmental performance of liquid glass coating using Sol-Gel technology and responsive Venetian blinds in the tropics, JOURNAL OF BUILDING ENGINEERING. 62. doi:10.1016/j.jobe.2022.105329. (SCIE)

15. Al-Sabahi, Mohammed Hatim; Ismail, Muhammad Azzam; Alashwal, Ali Mohammed; Al-Obaidi, Karam M. (2022). Triangulation Method to Assess Indoor Environmental Conditions and Occupant Comfort and Productivity towards Low Energy Buildings in Malaysia, BUILDINGS. 12(11), doi:10.3390/buildings12111788. (SCIE; CA)

16. Al-Duais, Husam S.; Ismail, Muhammad Azzam; Awad, Zakaria Alcheikh Mahmoud; Al-Obaidi, Karam M. (2022). Performance Evaluation of Solar-Powered Atmospheric Water Harvesting Using Different Glazing Materials in the Tropical Built Environment: An Experimental Study, ENERGIES. 15(9). doi:10.3390/en15093026. (SCIE; CA)

17. Al-Duais H.S., Ismail M.A.B., Awad Z.A.M., Al-Obaidi K.M. (2022). Methods of harvesting water from air for sustainable buildings in hot and tropical climates, Malaysian Construction Research Journal. 15(Special issue 1), 150-168. (SCOPUS; CA)

communities awareness, motivation, and barriers to sustainable diet in Malaysia. (Co-Researcher), 29/11/2017 to 29/11/2020. MYR 80,050

9. UMRG RP051B-17HTM: Carbon Footprint Calculation of Food Groups In Malaysia. (Principal Investigator), 29/11/2017 to 29/11/2020. MYR 83,500

10. UMRG RP051A-17HTM: Study on the sustainable diet and its feasibility among the multi-ethnic population in Malaysia. (Co-Researcher), 29/11/2017 to 29/11/2020. MYR 83,500

11. FRGS FP063-2016: Living Buildings: A Fundamental Solution To Implement Adaptive Wall System In The Tropics. (Principal Investigator), 01/08/2016 to 05/08/2019. MYR 122,000

12. UMLLP LL007-15SUS: Design of Homes for Active Ageing. (Principal Investigator), 01/01/2015 to 30/09/2018. MYR 92,000

13. Bantuan Kecil Penyelidikan (BKP) BK061-2015: Green offices, a healthy work place of the future? Investigating the impact of green offices on occupant's behaviour and work efficiency. (Co-Researcher), 28/10/2015 to 28/10/2018. MYR 30,100

14. UMRG RP002B-14HNE: Collaborative learning programs in the architectural design studio. (Co-Researcher), 07/07/2014 to 17/02/2017. MYR 77,040

15. IRU-MRUN Collaborative Research Program: Enhancing the Energy Performance of Building Envelopes in Hot and Humid

18. Esfandiari, Masoud; Zaid, Suzaini Mohamed; Ismail, Muhammad Azzam; Hafezi, Mohammad Reza; Asadi, Iman; Mohammadi, Saleh (2021). A Field Study on Thermal Comfort and Cooling Load Demand Optimization in a Tropical Climate, SUSTAINABILITY. 13(22). doi:10.3390/su132212425. (SCIE)

19. Esfandiari, M., Zaid, S. M., Ismail, M. A., Hafezi, M. R., Asadi, I., Mohammadi, S., Aflaki, A. (2021). Occupants' Satisfaction toward Indoor Environment Quality of Platinum Green-Certified Office Buildings in Tropical Climate. Energies, 14(8), 25. doi: 10.3390/en14082264. (SCIE)

20. Samsadeh, M., Che Din, N., Abdullah, Z., Ismail, M.A., Mahyuddin, N. (2021). Feasibility of Vertical Rainwater Harvesting via In-situ Measurement of Wind-driven Rain Loads on Building Facades in a Tropical Climate. International Journal of Built Environment and Sustainability, 8(3), 27-45. doi: 10.11113/ijbes. v8. n3.736. (ESCI)

21. Salehian, S., Ismail, M. A., & Ariffin, A. R. M. (2020). Assessment on Embodied Energy of Non-Load Bearing Walls for Office Buildings. Buildings, 10(4), 16. doi: 10.3390/buildings10040079. (SCIE)

22. Ahmad, Y., Ismail, M.A. & Ng, W. (2020). The Impact of Re-Settlement Program on Social and Built Form of Existing Fisherman Village in Kuala Kedah. Journal of Architecture, Planning and Construction Management (JAPCM), 2(2). https://doi.org/10.31436/japcm.v2i2.503 (Google Scholar)

23. Nordin, N., Ismail, M.A., Mohd Ariffin, A.R. (2019). Ventilation Blocks: Design Feature in Malaysia Public Schools, Journal of Design and Built Environment, 19 (1). (SCOPUS)

24. Edward, H., Amirhosein, G., Ghaffarianhoseini, A., Trombley, J., Hassan, N., Baig, M., Yusoff, S.Y., Ismail, M.A. (2018). A review on energy conscious designs of building facades in hot and humid climates: Lessons for (and from) Kuala Lumpur and Darwin, Renewable and Sustainable Energy Reviews, 82 (3), 2147-2161. (SCIE)

25. Tatarestaghi, F., Ismail, M. A., Ishak, N. H. (2018). A comparative study of passive design features/elements in Malaysia and passive house criteria in the tropics. Journal of Design and Built Environment, 18(2), 15-25. (SCOPUS; CA)

26. Al-Obaidi, K. M., Ismail, M. A., Hussein, H., Rahman, A. M. A. (2017). Biomimetic building skins: An adaptive approach. Renewable Sustainable Energy Reviews, 79, 1472-1491. doi: 10.1016/j.rser.2017.05.028. (SCIE)

27. Al-Obaidi, K. M., Munaaim, M. A. C., Ismail, M. A., Rahman, A. M. A. (2017). Designing an integrated daylighting system for deep-plan spaces in Malaysian low-rise buildings. Solar Energy, 149, 85-101. (SCIE)

28. Ismail, M. A., Keumala, N., Dabdoob, R. M. (2017). Review on integrating sustainability knowledge into architectural education: Practice in the UK and the USA. Journal of Cleaner Production, 140, 1542-1552. (SCIE; CA/FA)

Climates of Darwin (Australia) and Kuala Lumpur (Malaysia), Co-Researcher, 2015 - 2017 (International).

16. UMLLP LL017-16SUS: Zero Carbon Building Assessment For UM Chancellery Building and other UM Office Buildings. (Co-Researcher), 01/05/2016 to 31/12/2017. MYR 62,492

17. UMRG RG317-14AFR Potential of wall cladding as rainwater harvesting system for multistorey buildings. (Co-Researcher), 14/07/2014 to 15/03/2017. MYR 62,000

18. UMRG RG166-12SUS: Improving thermal performance of atrium in office buildings in Malaysia using natural ventilation. (Co-Researcher), 15/06/2012 to 05/04/2016. MYR 103,595.31

19. UMRG RP009-2012D: Urban green home program. (Principle Investigator), 01/08/2012 to 01/08/2015. MYR 125,000

29. Al-Obaidi, K. M., Wei, S. L., Ismail, M. A., Kam, K. J. (2017). Sustainable building assessment of colonial shophouses after adaptive reuse in Kuala Lumpur. Buildings, 7(4). doi: 10.3390/buildings7040087. (SCIE)

30. Esfandiari, M., Zaid, S. M., Ismail, M. A., Aflaki, A. (2017). Influence of indoor environmental quality on work productivity in green office buildings: A review. Chemical Engineering Transactions, 56, 385-390. doi: 10.3303/CET1756065. (SCOPUS)

31. Esfandiari, M., Zaid, S. M., Azzam Ismail, M. (2017). Investigating the indoor environment quality parameters and their relationship with occupants satisfaction in office buildings: A review. Journal of Design and Built Environment, 17, 181-193. (SCOPUS)

32. Mahmoud Wahid Saidam, *Karam M. Al-Obaidi, Hazreena Hussein and Muhammad Azzam Ismail (2017). The application of smart materials in building facades. Ecology, Environment and Conservation, 23 (Nov. Suppl. Issue), 8-11. (Was in SCOPUS until 2021) (Google Scholar)

33. Keumala, N., Younus, M. A., Kuan, Y., Razak, A. S. B., Ismail, M. A., Al-Obaidi, K. M. (2016). Pedagogy of architectural education on sustainability in Malaysia - student perspective. Open House International, 41(4), 104-108. (SCIE)

34. Al-Obaidi, K. M., Ismail, M. A., Abdul Rahman, A. M. (2016). Effective use of hybrid turbine ventilator to improve thermal performance in Malaysian tropical houses, Building Services Engineering Research and Technology. 37(6755-768). (SCIE)

35. Ismail, M. A., Al-Obaidi, K. M., Sulaiman, R., III. (2016). Energy efficiency policy for existing typical campus buildings in the University of Malaya. Planning Malaysia (5), 129-144. (SCOPUS; FA)

36. Abdul Rashid, F., Ab Ghaffar, N., Aminuddin, A. M. R., Ismail, M. A. (2016). Review of Thermal Performance: A Terrace House in Melaka, Malaysia. Applied Mechanics and Materials, 851, 791-797. https://doi.org/10.4028/www.scientific.net/amm.851.791. (Google Scholar)

37. Al-Obaidi, K. M., Ismail, M. A., Abdul Rahman, A. M. (2015). Assessing the allowable daylight illuminance from skylights in single-storey buildings in Malaysia: a review. International Journal of Sustainable Building Technology and Urban Development, 6(4), 236-248. doi: 10.1080/2093761X.2015.1129369. (SCOPUS)

38. Moosavi, L., Mahyuddin, N., Ab Ghafar, N., Ismail, M. A. (2014). Thermal performance of atria: An overview of natural ventilation effective designs, Renewable Sustainable Energy Reviews. 34, 654-670. (SCIE)

39. Syed Yahya, S.N.N., Ariffin, A.R.M. & Ismail, M.A. (2014) Green Potential Rating Tool: An Assessment of Green Potential for Conventional Buildings. Journal of Building Performance, 5(1). (MyCite)

40. Mahmoud Awad, Z.A., Hanif, N.R., Alias, A., Abdul Aziz, A., Ismail, M.A. (2014). Sustainability Issues of Illegal Land Subdivision Development in Asian Cities in the Content of the BEQUEST Framework. Australian Journal of Basic and Applied Sciences, 8(9), 96-106. (Google Scholar)

STUDENT ADVISORY

1. Mentor for Malaysia Structural Steel Association (MSSA) 2024 Open Ideas Competition for Students – Stadium Merdeka, 10 teams, 3 in final round
2. Mentor for RIBA Sir Norman Foster Travel Scholarship (Siti Nurafaf Ismail), 2019
3. Mentor for PAM Travelling Scholarship (Siti Nurafaf Ismail), 2018
4. Mentor for IJM Corporation Berhad Inspire to Innovate design competition, 2018
5. Mentor for Nippon Paint Asia Young Designer Award Winner, 2017
6. Mentor for IJM Corporation Berhad Innovate for Tomorrow design competition, 2017
7. Mentor for Malaysia Structural Steel Association (MSSA) 2017 Open Ideas Competition for Students "Youth Dome in Steel" (YouDo), 2017
8. Mentor for Architalent "Discovering the Journey" in conjunction with ARCHIDEX 17, Malaysia Institute of Architects (PAM) and CIS Network Sdn Bhd, 2017
9. Mentor for DUALISMA 25th Architectural Students Workshop, Faculty of Built Environment, University of Malaya, 2013

41. Wan Hassan, W.N.H., Zakaria, N., & Ismail, M.A. (2014). The practice of life cycle cost in Malaysia construction industry: a review. Built Environment Journal, 11(2), 47-62. (MyCite)
42. Wan Hassan, W.N.H., Zakaria, N., & Ismail, M.A. (2014). The challenges of life cycle costing application of intelligent building in Malaysia construction industry. Journal Design + Built, 7. (MyCite)
43. Ismail, Muhammad Azzam, Abdul Rashid, Fahanim, & Prasad, Deo. (2013). Evaluation of indicators within the Green Building Index for Residential New Construction (GBI- RNC). The International Journal of Environmental, Cultural, Economic and Social Sustainability, 7(6), 29-48. (SCOPUS; FA)
44. Fahanim Abdul Rashid & Muhammad Azzam Ismail (2013). Embodied Carbon Footprint of Existing Malaysian Green Homes. International Journal of Civil, Structural, Construction and Architectural Engineering, WASET, 7(10), 464-469. (SCOPUS)
45. Abdul Rashid, Fahanim, Ismail, Muhammad Azzam & Prasad, Deo (2011). Quantifying the Sustainable Building Criteria Based on Case Studies from Malaysia. International Journal of Civil, Structural, Construction and Architectural Engineering, WASET, 5(6), 267-271. (SCOPUS)
46. Ismail, Muhammad Azzam, Abdul Rashid, Fahanim & Prasad, Deo (2011). Stakeholder Background and Knowledge Regarding Green Home Rating in Malaysia. International Journal of Civil, Structural, Construction and Architectural Engineering, WASET, 5(6), 592-595. (SCOPUS; FA)
47. Ismail, Muhammad Azzam, Abdul Rashid, Fahanim. (2011). Smart and Cool Home in Malaysia. Advanced Materials Research, Scientific.Net, 224, 115-119. (SCOPUS; FA)
48. Ismail, Muhammad Azzam, Abdul Rashid, Fahanim. (2011). Cooltek House in Malaysia. Advanced Materials Research, Scientifc.Net, 224, 120-124. (SCOPUS; FA)

BOOKS – 4

1. Ahmad, Y., Che Din, N., Ismail, M.A. (Eds.) (2023). *UM Master Plan 2050*. UM Press.
2. Ahmad, Y., Che Din, N., Ismail, M.A. (Eds.) (2024). UM SmartNEST Strategic Plan. UM Press. (in progress)
3. Ismail, M.A., Mohamad, Z.F. (Eds.) (2024). UM Net Zero Strategic Plan 2030. UM Press. (under review)
4. Mahyuddin, N., Ismail, M.A. (2024). Achieving Nearly Zero Energy Homes in the Tropics with a Focus on Indoor Environmental Quality. UM Press. (under review)

BOOK CHAPTERS – 8

1. Tang, Q., Ismail, M.A., Nordin, N.A. (2023). Redesigning Urban Neighbourhood Space Under the Open Community Policy in Mainland China. In: Chun Tat Shum, T., Kwong, C.C.L. (Eds.) Housing and Ageing

COMMUNITY SERVICE

1. Designer: STEM Centre at UM Foundation Centre; 30/11/2022 to 31/1/2023
2. Advisor: We Are For You (WER4U) community engagement program at Baitul Fitrah orphanage, Kundang, Selangor; 2021
3. Designer: STEM Centre at Baitul Hasanah Secondary School, Kapar, Selangor; 29/10/2021 to 31/12/2021
4. Advisor & instructor: UM 9th Residential College Leadership Camp; 2012-2021
5. Advisor & instructor: UM 9th Residential College Student Facilitator Camp; 2012-2019
6. Form six collaborative program, SMK Padang Midin, Kuala Terengganu with Faculty of Built Environment; 05/03/2020
7. Panel in a dialog with DVC (Student Affairs) in conjunction with Fellow and Assistant Fellow Orientation Course; 14/02/2020 to 16/02/2020
8. Conducted Food Container and Packaging, Food & Environment Workshop; 15/11/2019 & 19/10/2019
9. Designer: Active Ageing Habitation Unit, Baitul Maab Darul Izzah, Temerloh; 2017-2018
10. Advisor: UM 9th Residential College Global Community Service (GLOCOSE):
    - Phuket, THAILAND (2019)
    - Lombok, Indonesia (2018)
    - Tay Ninh, Vietnam (2017)
    - Kampung Cham, Cambodia (2016)

Policies in Chinese and Global Contexts. Quality of Life in Asia, vol 15 (pp. 119-144). Springer, Singapore. https://doi.org/10.1007/978-981-99-5382-0_7 (SCOPUS; CA)

2. Ismail, M.A. (2023). Architecture Vs Climate Change. In: Ngiom, L.T. (Ed.) Arch-Volution: Evolution of Malaysian Architecture. Malaysia Institute of Architects (PAM), Kuala Lumpur.
3. Ismail, M.A. (2019). Laman PKNS. In Gelber, M., Boon, C.W. & Hijjas, S. (Eds.), Greening Malaysia (pp. 54-61). Kuala Lumpur: Malaysia Institute of Architects (PAM).
4. Ismail, M.A. (2019). Energy Commission Building. In Gelber, M., Boon, C.W. & Hijjas, S. (Eds.), Greening Malaysia (pp. 82-91). Kuala Lumpur: Malaysia Institute of Architects (PAM).
5. Ismail, M.A. (2019). Wisma Kalulong. In Gelber, M., Boon, C.W. & Hijjas, S. (Eds.), Greening Malaysia (pp. 120-129). Kuala Lumpur: Malaysia Institute of Architects (PAM).
6. Alashwal, A. Ismail, M.A., Al-Obaidi, K.M., Syed Yahya, S.N.N. & Al-Sabahi, M.H. (2017). Zero Carbon Building Assessment for UM Chancellery Building and Other UM Office Buildings. In Yusoff, S. (Eds.) UM Living Lab Volume 1: Transforming Research (pp. 1-25). Kuala Lumpur: UM Press.
7. Ismail, M.A. (2017). Green Architecture: The Malaysian Development. In Teh, D. (Eds.) Views Reviews Interviews: Celebrating 60 Years of Malaysian Architecture 1957-2017 (pp. 128-133). Kuala Lumpur: Malaysia Institute of Architects (PAM).
8. Syed Yahya, S.N.N., Ariffin, A.R. and Ismail, M.A. (2015). Building Energy Index and Student's Perceived Performance in Public University Buildings. In Sayigh, A. (Eds.) Renewable Energy in the Service of Mankind, Vol. 1 (pp. 541-550). World Renewable Energy Congress 2014.

CONFERENCE PAPERS – 18 & NEWS ARTICLES – 1

1. Ismail, M. A., Mat Sulaiman, M. K. A., Awalludin, Z. L., & Wong, W. C. (2025). Systemization of Architectural Design Process in Master of Architecture Thesis Projects. Proceedings of the 2025 International Conference on Engineering and Built Environment Education (PeKA 2025), UKM Bangi, 19-20 May 2025.
2. Bramiana, C. N., Ismail, M. A., Hasan, M.I., & Aminuddin, A. M. R. (2025). Smart Daylighting Strategies for Architectural Studios: Evaluating Louvre Angles and Time Effects Through Revit Simulations. Proceedings of The 9th International Conference on Energy, Environment, Epidemiology and Information System (ICENIS 2024), Semarang, 29-30 October 2024. E3S Web of Conferences, 605. DOI: https://doi.org/10.1051/e3sconf/202560501006
3. Ismail, M.A., Abdul Rashid F. (2022). Green architecture approach toward sustainable mosques in Malaysia. Proceedings of International Conference on Research and Innovation in Sustainable Cities (ICRISC) 2022, Kuala Lumpur, 26-29 September 2022.

- Acheh, Indonesia (2015)

11. Advisor & instructor: UM 9th Residential College project directors' workshop; 2016-2019
12. Conducted 9th Residential College administration enhancement workshop; 2015-2017

CLARIVATE/ORCID VERIFIED JOURNAL REVIEWER (TOTAL 110)

- Buildings – 32
- Journal of Cleaner Production – 18
- Journal of Building Engineering – 11
- Sustainability – 8
- Atmosphere – 7
- Jurnal Kekuruteraan UKM – 7
- Agriculture – 3
- Energies – 3
- Journal of Asian Architecture and Building Engineering – 2
- Applied Sciences – 2
- Jurnal Teknologi (Science & Engineering) – 2
- Alam Cipta – 2
- Journal of Mountain Science – 2
- Sustainable Futures – 2
- Urbanization, Sustainability and Society – 1
- Smart & Sustainable Built Environment – 1
- Habitat International – 1
- Heliyon – 2
- Atmospheric Pollution Research – 1
- AZ ITU Journal of Faculty of Architecture – 1
- Buildings and Cities – 1

4. Ismail, M. A., Rashid, F. A., & Peng, T. A. (2021). Challenges to the Installation of Building-Integrated Photovoltaic on an Atrium in Malaysia. In: Bin Meor Razali, A.M.M.F., Awang, M., Emamian, S.S. (Eds.) Advances in Civil Engineering Materials. Lecture Notes in Civil Engineering, vol 139, 301-312. Springer, Singapore. doi: 10.1007/978-981-33-6560-5_30. (SCOPUS; CA/FA)
5. Ismail, M.A. & Al-Obaidi, K.M. (2019). Exploration in using algae to enhance indoor environment in the tropical climate. Proceeding of the 2nd Asia Conference on Energy and Environment Engineering, ACEEE 2019, 25-29. doi: 10.1109/ACEEE.2019.8816895
6. Syed Yahya, S.N.N., Mohd Ariffin, A.R., Ismail, M.A. (2015). Energy consumption vs. users' perceptions: a quantitative study of energy and comfort in university campus. Proceedings of PLEA15 Architecture in (R)Evolution, Bologna, Italy, 9-11 September 2015.
7. Nordin, N., Ismail, M.A., Mohd Ariffin, A.R. (2015). The Missing Design Feature. Proceedings of 9th ASEAN Postgraduate Seminar, University of Malaya, Kuala Lumpur, 8 December 2015.
8. Ismail, Muhammad Azzam & Abdul Rashid, Fahanim. 2014. Malaysia's Existing Green Homes Compliance with LEED for Homes. Procedia Environmental Sciences, 20, 131- 140, doi: 10.1016/j.proenv._2014.03.018.
9. Rosli, M.F., Razak, A.S., Younus, M.A., Keumala, N. and Ismail, M.A. (2014). Students' Preferences Using BIM Software in Design Studio Project in University of Malaya - An Exploratory Study. PAM Professional Practice Forum (PPF) 2014, Kuala Lumpur.
10. Syed Yahya, S.N.N., Ariffin, A.R.M., Ismail, M.A. (2014). Green Buildings in Campus: An Assessment of Green Potential for Existing Conventional Buildings. Proceeding of 1st Regional Conference on Campus Sustainability: Building Sustainability Edge Through Institutional Strategy. Universiti Malaysia Sabah. pg 202-214.
11. Syed Yahya, S.N.N., Ariffin, A.R.M., Ismail, M.A. (2014). Factors Contributing to Occupants' Comfort: A Survey among Occupants of Academic Buildings in a Public University. Proceedings of International Conference on Industrial Engineering and Operational Management. pg 3090-3098.
12. Ismail, M.A. and Abdul Rashid, F. (2014). Operational Carbon Emissions of Rural Vernacular Malacca Houses. Proceedings of World Renewable Energy Congress XIII, London.
13. Mahmoud Awad, Z.A., Younus, M.A., Keumala, N., Abdul Razak, A.S., Ismail, M.A. (2014). Students' Perception on Sustainability in Architectural Education. Proceedings of World Renewable Energy Congress XIII, London.
14. Ismail, M.A., Prasad, D. (2010). Rating existing homes in Malaysia: the applicability of rating tool transfer and adaptation. Proceedings of Conference on Sustainable Building South East Asia 2010, 4-6 May 2010, Kuala Lumpur.

- International Journal of Advanced and Applied Sciences – 1

  Pertanika Journal of Science and Technology – 1

SOFTWARE & EQUIPMENT USED FOR TEACHING AND RESEARCH

- Sefaira – energy efficiency and building thermal performance software
- Sketchup – 3D modelling software
- Velux Energy and Indoor Climate Visualizer – indoor thermal performance software
- Velux Daylight Visualizer – indoor daylighting software
- OpenLCA – life cycle analysis software
- Excel – statistical analysis and inferential statistics
- SPSS – statistics
- AutoCAD
- Microsoft Word
- Microsoft Power Point
- Canva
- Adobe Photoshop
- Adobe Premier Pro – video editing
- Clipchamp – video editing
- HOBOWare – HOBO data loggers software
- ONSET Portable weather station HOBO Indoor environmental monitors (handheld and data loggers)

15. Ismail, M.A., Prasad, D., Abdul Rashid, F. (2010). Rating existing homes in Malaysia against the Code for Sustainable Homes (UK). Proceedings of 44th Annual Conference of the Architectural Science Association, ANZAScA 2010 Unitec Institute of Technology, Auckland, New Zealand.
16. Abdul Rashid, F., Ismail, M.A., Prasad, D. (2010). Conceptual Shift from Green Homes to Sustainable Homes: Case Studies from Malaysia. Proceedings of 44th Annual Conference of the Architectural Science Association, ANZAScA 2010 Unitec Institute of Technology, Auckland, New Zealand.
17. Ismail, M.A., Prasad, D., Tan, A., Lee, L. (2010). A study of the practicality of the Green Building Index for Residential New Construction, Malaysia. Proceedings of Renewable Energy 2010, Yokohama, Japan.
18. Ismail, M.A., Prasad, D. (2009). Green building rating or sustainable building rating: what should be the choice for Malaysia's Residential buildings? Proceedings of International Network for Tropical Architecture - Sustainable and Green Architecture iNTA-SEGA 2009, Bangkok.
19. Ismail, M.A., Prasad, D. (2008). Towards a framework for a green building rating tool for residential properties in Malaysia. Proceedings of Asia Pacific Regional International Solar Energy Society Conference 2008, Sydney. 25-28 November 2008.
20. Ismail, M.A. (2024, May 31). Powering ahead with next-gen DCs. *STARBIZ7*.

    https://www.thestar.com.my/business/business-news/2024/05/31/powering-ahead-with-next-gen-dcs

ACADEMIC COMMITTEES & CONTRIBUTIONS

➢ Curriculum Development & Evaluation

1. Malaysia Structural Steel Association Education Committee member; 01/01/2024 to 31/12/2026
2. UM Faculty of Built Environment Curriculum Committee member; 2023/2024 academic session
3. LAM Accreditation Evaluator: Master of Architecture program at TAR-UMT, 2023
4. Accreditation Evaluator for LAM's Council of Architectural Accreditation & Education Malaysia (MAPS); 06/08/2022 to 05/08/2027
5. Documentation committee member for Royal Institute of British Architects (RIBA) Re-Validation of UM BSc.Arch and M.Arch; 14/04/2022 to 31/12/2022
6. External Examiner for Master of Architecture, Department of Architecture, Faculty of Design and Architecture, Universiti Putra Malaysia (UPM); Semester One 2020/2021, 25/02/2021 & Semester Two 2020/2021, 26/07/2021

7. Advisor at Curriculum Transformation Workshop (CQI) – Diploma in Architecture, Department of Civil Engineering, Malaysia Polytechnics; 2017
8. Committee Chairman for Royal Institute of British Architects (RIBA) Re-Validation of UM BSc.Arch and M.Arch; 2014-2016
9. Committee Chairman for Malaysia Board of Architects (LAM) Re-Accreditation of UM BSc.Arch and M.Arch; 2014-2016
10. Committee member for UM BSc.Arch and M.Arch curriculum reviews; 2012-2014, 2019-2021 & 2024-2025

➢ Other Academic Committees & Contributions

1. Interview panel for Master of Architecture student intake; 2014-2022
2. Interview panel for Bachelor of Science in Architecture student intake, 2014-2022
3. Forum moderator at the Art Discourse Programme in Conjunction With Unsung Heroes: "*Wira Sebalik Tabir*" Exhibition at Galeri PETRONAS; Topic - "The Relationship Between Architecture and Environment"; 14 July 2019
4. Invited critic at the Commercialization and Market Potential (*PERKAYA Inovasi 15*) Program, Merlimau Polytechnic, Melaka; 2017
5. Invited critic at the National Architecture, Civil Engineering & Land Surveying Festival (ACELS) 2011, Merlimau Polytechnic, Melaka; 2011
6. Invited design critic: Universiti Kebangsaan Malaysia
7. Invited design critic: Taylor's University
8. Invited design critic: Universiti Sains Malaysia/KPT Offshore Programme

- Thermocouple with HOBO data logger
- PEL Electricity use logger
- EDTM solar spectrum meter
- Laser cutter

TECHNICAL COMMITTEES & CONTRIBUTIONS

1. Committee member – Request for Proposal for UM Botanical Garden upgrading and management works; 02/07/2024 to 01/07/2024
2. Committee member – Feasibility of UM Faculty of Medicine Quadrangle Project; 01/07/2024 to 31/12/2024
3. Evaluator – Civil Engineering & Architecture Research, Innovation & Design Competition 2/2023 (RIDeC 2/2023), Politeknik Port Dickson
4. Editorial Board Member – Urbanization, Sustainability and Society (Emerald); from 2023
5. Editorial Board Member – Journal of Design and Built Environment (SCOPUS); 2014-2016, 2018-2020, 2023-2024
6. Editorial Board Member – Journal of Project Management Practice; 2020-2024
7. Committee Member – Malaysia Green Building Council Carbon Score Development Team, 23/12/2021 to 30/06/2022

8. UM Advisory Committee for Mass Rapid Transit 3 (MRT3) project, 07/09/2022 to 08/09/2023
9. University of Malaya Master Plan 2050 advisor for the University of Malaya Medical Centre (UMMC) Outpatient Specialist Complex (KPPL) development, June 2022 to present
10. Consultant – University of Malaya Master Plan 2050, 03/09/2021 to 31/03/2022
11. UM Taskforce member for Centralised Gallery, Library and Museum (GLAM) project, 31/10/2022 to 01/11/2023
12. Chairperson – University of Malaya Student Disciplinary Panel, 17/08/2022 to 31/12/2022
13. Working committee member – Malaysia Board of Architects (LAM) baseline study on technology usage in architectural services to increase productivity level, 21/10/2021 to present
14. Participated in the Campus Sustainability and Health: A Schema Workshop, Faculty of Engineering, University of Malaya, 26/06/2018 to 28/06/2018.
15. Consultant – Implementation of Low Carbon Cities Framework - Assessment System (LCCF-AS) on UM Campus; A pilot project in collaboration with Malaysian Green Technology Centre & KETTHA, UMCARES, 2012 - 2014.
16. Head – Centre for Building, Construction & Tropical Architecture (BuCTA), 02/01/2022 to 31/12/2022
17. Resource person – Focus Group Discussion Participant for PAM Education Research Grant 2021 Research Project, 12/07/2022 to 31/12/2022
18. Evaluator – Impact Oriented Interdisciplinary Grant (IIRG) Cycle 4/2021, 30/09/2021 to 22/10/2021
19. Technical Committee Member – Times Higher Education Impact Ranking (THE IR) for UM, University Malaya, 21/06/2021 to 31/12/2021
20. Resource person – the preparation of Greenbuildingindex (GBI) certification documentation for Mercu Alam Bina, UM, 05/01/2021 to 31/12/2021
21. Designer – Selangor Wholesale Market (PBS) masterplan, 29/1/2018 to 9/5/2019
22. Action Lab Head – UM Transformation Plan (UMTP) Theme 6: Sustainable Campus, 2021
23. External Evaluator – Deanship of Scientific Research, King Fahd University of Petroleum & Minerals Small/Basic Research Grant proposal (2018) & final report (2021)
24. Invited Judge – Bandar Malaysia Master Concept Design Competition organised by Iskandar Waterfront, China Railway Group Limited and Ministry of Finance Malaysia (2017)

25. Organizing Committee for "Merdeka Jubilee Architecture Symposium" organized by the Malaysia Institute of Architects (PAM) supported by UM and Taylor's University, 19/05/2017 to 12/10/2017
26. Working committee member – Preparation of UM Master Plan, 25/05/2016 to 31/12/2016
27. Organizing Committee Member – UM Masterplan Ideas Competition, 26/05/2016 to 16/03/2017
28. Jury – Cameron Highlands Discovery Centre Design Competition, 18/11/2016 to 18/11/2016
29. Designer – Low Cost House Incorporating Green Technology, 20/01/2016 to 20/05/2016
30. Chairman – UM-COHAS International Conference 2015, Faculty of Built Environment, UM, 2015
31. Participated in the 11th ASEAN Architectural Education Committee (AAEC) and ASEAN Architects Council meeting at the 81st ASEAN Coordinating Committee on Services (CCS) Meetings, Kuala Lumpur, 05/05/2015 to 06/05/2015
32. Participated in the ASEAN Architectural Education Committee (AAEC) and ASEAN Architects Council meeting at the 80th ASEAN Coordinating Committee on Services (CCS) Meetings, Siem Reap, Cambodia, 12/01/2015 to 16/01/2015
33. Participated in the ASEAN Architectural Education Committee (AAEC) and ASEAN Architects Council meeting at the 79th ASEAN Coordinating Committee on Services (CCS) Meetings, Bali, Indonesia, 22/09/2014 to 27/09/2014

KEY PRESENTATIONS

1. Invited speaker: Future of Architecture Practice in the Age of Artificial Intelligence, 28/10/2024, College of Architecture, Art and Design, Ajman University (International)
2. Invited speaker: Eco Campus Talk – Environmental degradation and the urban built environment, 26/09/2024, UM Estates Department (JHB)
3. Invited speaker: South East Asia Youth Sustainability Summit 2024 – Creating meaningful change via sustainability education, 10/08/2024, SEAmply Sustainable Association, Asia School of Business, Kuala Lumpur (International)
4. Invited speaker: JDBE Paper Formatting Workshop, 23/07/2024, Built Environment Research and Innovation (BERI) Studies, CBE, UiTM
5. Invited speaker: Universiti Teknologi Brunei (UTB) Online Talk – Living buildings: Beyond green architecture, 17/07/2024 (International)
6. Invited speaker: Strategies for Achieving SDGs in Architecture & Urban Development in Malaysia, 16/11/2023, Malaysia SDG Summit 2023 – Northern Region, Northern Corridor Economic Region (NCER)

7. Invited speaker: Strategies for Achieving SDGs in Architecture & Urban Development in Malaysia, 26/9/2023, Faculty of Engineering, Built Environment & Information Technology, SEGi University
8. Invited speaker: Living Building: Beyond Green Architecture, Advancing net zero carbon webinar series – Low carbon construction for the Malaysian built environment, 18/06/2022, Malaysia Green Building Council (International)
9. Invited speaker: Digital Design Analysis: Adding Credence to Architecture, Construction 4.0 Webinar: Emerging Technologies, 24/03/2022, Construction Research Institute of Malaysia (CREAM) & CIDB (International)
10. Invited speaker: Best ventilation designs to beat COVID-19, Experts Speak, 09/10/2021, Civil Infrastructure Engineering and Architecture Design Vocational School, Universitas Diponegoro, Indonesia (International)
11. Invited speaker: PhD for Architects, Malaysia Institute of Architects (PAM) CPD Unlimited 2019, 16/11/2019 (National)
12. Invited speaker: Community architecture: Liveable and easy to build low cost house, Forum on Smart & Sustainable Development, 27/11/2017 to 28/11/2017, National Cheng Kung University, Taiwan (International)
13. Invited speaker: Operational Carbon Emissions of Rural Vernacular Malacca Houses, World Renewable Energy Congress, London, 07/08/2014 (International)
14. Invited speaker: Development of Green Building Movement in Malaysia, Immersive Experience of Malaysia's Architecture and Architectural Drawing Program, University of Malaya with Chongqing University, China, 16/08/2018 to 23/08/2018 (International)
15. Invited speaker: Modern Contemporary Malaysian Architecture, Immersive Experience of Malaysia's Architecture and Architectural Drawing Program, University of Malaya with Chongqing University, China, 16/08/2018 to 23/08/2018 (International)
16. Invited speaker: Innovation in Malaysian Architecture, Tokuyama High School (Japan) Talk, 06/01/2018 (International)
17. Invited speaker: Sustainable Cooling Strategies, Green Architecture Workshop with Future University, Sudan, 03/11/2017 (International)
18. Invited speaker: Green Architecture Principles, Green Architecture Workshop with Future University, Sudan, 02/11/2017 (International)
19. Invited speaker: Indoor environmental conditions for Green Buildings, Inaugural Green Architecture Workshop with Future University, Sudan, 01/03/2017 to 04/03/2017 (International)
20. Invited speaker: Green Architecture Principles, Inaugural Green Architecture Workshop with Future University, Sudan, 01/03/2017 to 04/12/2018 (International)
21. Invited speaker: Innovation in Malaysian Architecture, *Bicara Seni Bina*, 22/03/2016, Malaysia Architecture Muzium (National)

22. Invited speaker: Saving Electricity, "Our Earth, Our Responsibility" Campaign, 04/12/2015, UMCARES capacity building talk to students
23. Invited speaker: Architectural Programmes in Malaysian Universities, 11th ASEAN Architect Education Committee (AAEC), 05/05/2015, Malaysia Board of Architects (LAM) (International)
24. Invited speaker: Energy Conservation, UMCares Exchange & Summit 2014, 13/11/2014

POSTGRADUATE EVALUATION (total 117)

- PhD examination (viva) – 10 (including 1 from UNSW)
- PhD thesis seminar – 15
- PhD candidature defence – 11
- PhD proposal defence – 28
- MSc examination (viva) – 15 (including 1 from SEGI University, & 1 from IIUM)
- MSc thesis seminar – 14
- MSc candidature defence – 13
- MSc proposal defence – 11

POSTGRADUATE SUPERVISION

➢ PhD (Completed)

1. DR. MASOUD ESFANDIARI – Occupants' satisfaction of indoor environment in selected green office buildings in Kuala Lumpur, 2020 (Co-Supervisor)
2. DR. MOHAMMED AMER YOUNUS AL-SHAHEEN – Integration of sustainability knowledge into Malaysian architectural education, 2022 (Main Supervisor)
3. DR. MOHAMMED HATIM MOHAMMED AL-SABAHI – Exploring the thermal comfort and perceived productivity of staff in office building in tropical climate, 2022 (Main Supervisor)
4. DR. HUSAM SALEH MOHAMMED AL-DUAIS – The development of an architectural solar-powered atmospheric water harvesting system from indoor humidity for tropical buildings, 2023 (Main Supervisor)
5. DR. CHELY NOVIA BRAMIANA – Window characteristics' impact on the natural ventilation of high-rise residential buildings in tropical climate, 2023 (Co-Supervisor)
6. YANAN LI – Spatial gene variation mechanism based on rural tourism for traditional villages in Southern Shanxi, China, 2024 (Main Supervisor)

➢ Master of Science in Architecture (Completed)

1. WAN HAMIZAH BINTI WAN HASSAN – The challenges in life cycle costing application in intelligent building project in Malaysia construction Industry, 2015 (Co-supervisor)
2. AR. DR. SHARIFAH NOOR NAZIM BT SYED YAHYA – Occupants' perception and building energy performance at University of Malaya, 2016 (Main Supervisor)
3. SANAZ SALEHIAN – Potential embodied energy of different types of concrete wall for office buildings in Malaysia, 2020 (Main Supervisor)
4. MUHAMAD SYAKIR BIN MAHADZIR – The effectiveness of passive design elements in a modern simple cottage house style in Petaling Jaya, Malaysia, 2024 (Main Supervisor)

➢ Master of Architecture (Completed) – Main Supervisor

1. SIM LI WEI – Effectiveness of Waterbody Design in Tropical Architecture, 2014

2. NURFARRAHANI BINTI ABDUL GHANI – Indoor environmental conditions: study of sports facilities in the badminton arena of Kuala Lumpur Badminton Stadium, 2015
3. PEE SIEW EAN – Environmental conditions of a retail outlet centre in Malaysia, 2015
4. LEE JO KHAN – Architectural design recommendation for animal shelter & adoption centre in Malaysia, 2016
5. ONG KEVIN – Greenery in urban building: A case study on the various issues in building, 2016
6. YAP KAH MENG – Bamboo as a prefabricated building material in Kuala Lumpur, Malaysia, 2017
7. CHOY YU ZHEN – ETFE as the new and better material for the Malaysian building envelope, 2017
8. FRANCIS POH CHUNG HIAN – Gender specific needs in Malaysia's all girls primary school: case of Petaling Jaya all-girls primary school, 2018
9. MOHD SHAMSUDIN BIN ISMAN – Comparison of user's perception on passive design implementation on institutional building in University of Malaya, 2018
10. WONG SOON TIING – ETFE as premium building material for transparent cladding applications, 2019
11. YVONNE NG YEE LING – Formalization of Malay, Chinese and Indian folk performing arts, 2019
12. TAN AIK PENG – The challenges of integrating photovoltaic (PV) technology on building atrium in Malaysia, 2019
13. CHERYL TONG HUI MIN – Design for learning: a study on museum exhibit design for effective learning, 2020
14. TAN SZE JING – Challenges of implementation of vertical farming in urban area, 2020
15. AMALIN HAYATI YAAKUB – Psychological influences on architectural design in juvenile correctional centre, 2020
16. LEE YEN CHEI – An overview of industrialized building system (IBS) in Malaysia: can IBS contribute to affordable housing construction, 2021
17. CHONG SHER LI – A study on design and type of temporary accommodation for construction workers in Malaysia, 2021
18. NUR ADILAH HUSNA TAJUDIN – Roles of architecture in creating access to education for indigenous children, 2022
19. NADIA AZLAN – A Study on post pandemic health and well-being through biophilic design, 2022
20. ERSYAD ARIF AHMAD FAUZI – Psychological impact of architecture design in workplace through biophilic design approach, 2022
21. GEORGE LEE KANG ZHENG – The effect of active public open space (POS) on the well-being of residential neighbourhoods in Klang Valley, 2022

22. JUN HUI CHAI – Smart villages: integrated rural development approach for Malaysia village, 2023
23. FARISYA IBRAHIM – Green theatre: revisitation of theatrical architecture semiotics, 2023
24. WEI YI KO - Role of architecture to inculcate waste separation at source in Klang Valley, 2023
25. CHEN JIA YUE – Translation of the May 13 racial riot into architectural element, 2024
26. SIOW Yong QI – Safeguarding rattan craft through the triple helix perspective: barriers and framework to sustainable rattan craft in Jelebu, 2024
27. KRISTINE LOW SZE MIN – Impacts of tourism in development in forested areas on the Orang Asli communities: a case study of Kampung Leryar, Cameron Highlands, 2024

➢ **Master of Renewable Energy (Completed) – Main Supervisor**

1. THURKESVARI A/P KALITHASAN – Carbon sequestration through the tropical vertical green facade to reduce the UHI, 2022
2. ARUL SAKTIVEL A/L M NAGARAJAN – Green building materials in construction to reduce carbon footprint, 2022
3. JASPREET KAUR A/P JAGINDER SINGH – Carbon sequestration through building landscape, 2022
4. JIVITHAN KRISHNAMOORTHY - A study on the potential of biophilic based solutions onto Malaysian airports, 2023

➢ **PhD (Ongoing) – Main Supervisor**

1. HUIZI DENG – A framework for biophilic design principles in kindergartens to enhance children's perceived health and wellbeing in Central China: a case study of Henan Province, 2024 (Submitting for examination in December 2024)
2. QIAN TANG – Research on the design strategy of urban pension community guided by sustainable idea

STUDENT EVALUATION SUMMARY

2023/2024; Semester 2

- BQD7015 Architectural Design Thesis Lab II – 4.31/5.00
- BIA2026 Building Services – 4.29/5.00

2023/2024; Semester 1

COURSES TAUGHT

➢ **PhD and Master's by Research (Faculty of Built Environment, UM)**

- Lecturer: Research Methodology

➢ **Master of Architecture (Faculty of Built Environment, UM)**

- Course coordinator & syllabus author: BQD7015 Architectural Design Thesis Lab II (2024)

- BQD7001 Advanced Architectural Design I – 4.06/5.00
- BQD7002 Green and Sustainable Technology I – 4.10/5.00
- HQA7015 Low Carbon Buildings – 4.59/5.00

2022/2023; Semester 1

- BQD7002 Green and Sustainable Technology I – 4.03/5.00
- BIA2020 Architectural Design Studio III – 4.42/5.00
- BIA2022 Building Structure – 4.31/5.00
- HQA7015 Low Carbon Buildings – 4.60/5.00

2021/2022; Semester 2

- BAGS6205 Architectural Design Thesis II – 4.24/5.00
- BAGS6110 Green and Sustainable Technology II – 4.10/5.00

2021/2022; Semester 1

- BAGS6204 Architectural Design Thesis I – 4.04/5.00
- BAGS6109 Green and Sustainable Technology I – 4.40/5.00
- HQA7015 Low Carbon Buildings – 4.74/5.00

2020/2021; Semester 2

- BAGS6205 Architectural Design Thesis II – 4.27/5.00
- BIA1003 Environmental Physics – 4.34/5.00

2020/2021; Semester 1

- BAGS6204 Architectural Design Thesis I – 4.45/5.00
- BAGS6109 Green and Sustainable Technology I – 4.33/5.00

- Course coordinator & syllabus author: BAGS6204 Architectural Design Thesis I (2018-2022)
- Course coordinator & syllabus author: BAGS6205 Architectural Design Thesis II (2018-2022)
- Course coordinator & syllabus author: BQD7002/BAGS6109 Green and Sustainable Technology I (2014-2023)
- Lecturer: BQD7001 Advanced Architectural Design I (2023-2024)
- Course coordinator & syllabus author: BAGS6110 Green and Sustainable Technology II (2015-2022)
- Course coordinator & syllabus author: BQD7008/BAGS6023 Pre-Thesis (2018-2022 & 2024)
- Course coordinator & syllabus author: BAGS6318 Urban Planning (2018)
- Course coordinator & syllabus author: BAGS6315 Architectural Comparative Studies (2015)
- Course coordinator: BAGS6106 Research Methodology (2019-2023)

➢ **Master of Renewable Energy (for UM Power Energy Dedicated Advanced Centre, UMPEDAC)**

- Course coordinator: HQA7015 Zero Carbon Buildings (2016-2020)
- Course coordinator & syllabus author: HQA7015 Low Carbon Buildings (2021-2023)

➢ **Master of Facilities Management and Maintenance (for Department of Building Surveying)**

- Course coordinator: BSGF6309 Building Performance and Environmental Assessment (2013-2014)

➢ **Bachelor of Science in Arch (Faculty of Built Environment, UM)**

- Lecturer: BIA2026 Building Services (2024)
- Lecturer: BIA1005 Architectural Design Studio II – Building Structure Principle Component (2018-2020)
- Lecturer: BIA2020/BIA2001/BAED2275/BAEB2275/BAEA2275 Architectural Design Studio III (2011-2014, 2022)
- Course coordinator & syllabus author: BIA2005 Architectural Design Studio IV
- Course coordinator & syllabus author: BIA2022/BIA2003/BAED2127 Building Structure (2015-2020)
- Course coordinator: BAEB2127 Building Structure I/Architectural Structures I (2011-2014)
- Course coordinator: BAEB2227 Building Structure II/Architectural Structures II (2011-2014)
- Course coordinator: BAEB3227 Architectural Structures III (2011-2013)

- HQA7015 Low Carbon Buildings – 4.54/5.00

2022/2023; Spring Semester

- MUD621 Research Methods – 4.64/5.00
- MUD605 Urban Design Studio – 4.66/5.00

- Course coordinator: BIA1003 Environmental Physics (2021)
- Lecturer: BAEB3183/BAED3183 Topical Studies (2013-2014)
- Lecturer: BIA3183 Architecture Research I
- Lecturer: BAEA3228/BAEB3228 Building Engineering II (2012-2013)
- Course coordinator: BAEB2116 Sustainability Issues in the Built Environment (2011-2014)
- Course coordinator: BAED1171 Measured Drawing (2012)
- Lecturer: BAEB3136 Urban Studies (2010-2012)
- Lecturer: BAED2170/BIA3007 Industrial Training (2012-2017)

➢ **Bachelor of Science in Architecture (Faculty of Engineering and Built Environment, UKM)**

- KKAB 1116 Architecture Design Studio 1
- KKAB 3513 Architecture Working Drawings

➢ **Master of Urban Design (for College of Architecture, Art & Design, Ajman University)**

- MUD650 Urban Landscape Design (2025)
- Exchange faculty: MUD605 Urban Design Studio (2023)
- Exchange faculty: MUD621 Research Methods (2023)

➢ **Bachelor of Architecture (College of Architecture, Art and Design, Ajman University)**

- ARC585 Research & Design Methods