



CURRICULUM VITAE



DR. IZIAN ABD. KARIM

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Google Scholar : Izian Abd Karim (H-index = 8)
ResearchGate : Izian Abd Karim
Website : -

Education

- PhD, 2012, Swansea University, UK
- M.Eng. Engineering (Structure), 2003, Universiti Teknologi Malaysia
- B. Eng (Hons). Civil Engineering, 2000, Universiti Teknologi Malaysia

Research Interest

- Structural Dynamics
- Finite Elements Analysis
- Concrete Technology
- Structural Engineering

Professional Membership & Learned Society

- Member, The Institution of Structural Engineers (IStructE)
- Educational Committee Members, Malaysian Structural Steel Association (MSSA) 2003-2011
- Graduate Member, Institution of Engineers Malaysia (IEM)
- Graduate Member, Board of Engineers Malaysia (BEM)
- Member, Housing Research Center (HRC, UPM)

Appointments

- Development Coordinator, Department of Civil Engineering, Faculty of Engineering, UPM 2022 – date
- Head of Structural and Construction Unit, Department of Civil Engineering, Faculty of Engineering, UPM 2017 – 2023
- Academic Coordinator, Department of Civil Engineering, Faculty of Engineering, UPM 2013 – 2016
- Signatory of Accreditation Committee, MS ISO/IEC 17025:2005, Faculty of Engineering, UPM 2014 – date
- Coordinator Management Committee, HRC, UPM 2013 – date
- Chief of HRC Website Management Committee, UPM 2012 – 2013
- Co-ordinator, Structure Laboratory, Department of Civil Engineering, Faculty of Engineering, UPM 2003 – 2007
- Auditor, Internal Audit, Faculty of Engineering, UPM 2005 – 2006

Publications (2019 – recent in descending order)

- Nadeem G., Safiee N.A., Bakar N.A., **Karim I.A.**, Mohd Nasir N.A. Experimental and numerical study of self-locking adaptable inter connection for modular steel structures (2023) *Journal of Building Engineering*, 65, art. no. 105723, DOI: 10.1016/j.jobbe.2022.105723
- Nadeem G., Safiee N.A., Bakar N.A., **Karim I.A.**, Nasir N.A.M. Evaluation of slip behavior of self-locking modular steel connection (2022) *Journal of Constructional Steel Research*, 197, art. no. 107467, DOI: 10.1016/j.jcsr.2022.107467
- Nadeem, G., Safiee, N.A., Bakar, N.A., **Karim, I.A.**, Nasir, N.A.M. Connection design in modular steel construction: A review. *Structures*, (2021), 33, pp. 3239–3256
- Nabilah, A. B., Koh, C. G., **Izian, A. K.**, & Abd. Aziz, F. N. A. (2020). Development of finite element analysis for intermediate length coupling beams considering bond-slip interface. *International Journal of Concrete Structures and Materials*, 14, 1-10.

Conference Proceedings/Academic Talks (2019 – recent in descending order)

- Aziz, F.N.A.A., Al-Ghazali, N.A., Jasmi, A.D., Nasir, N.A.M., Karim, I.A. (2024). Effect of Superplasticizer on the Properties of Kenaf Fibre-Reinforced Geopolymer Concrete. In: Casini, M. (eds) Proceedings of the 3rd International Civil Engineering and Architecture Conference. CEAC 2023. Lecture Notes in Civil Engineering, vol 389. Springer, Singapore. https://doi.org/10.1007/978-981-99-6368-3_2
- Izian Abd Karim, Majiewen, Nor Azizi Safiee. Assessing Seaweed Waste Gel as an Innovative Self-Curing Agent for Concrete. Proceedings Of 11th Symposium On Applied Engineering And Sciences 2023 (SAES2023), Faculty of Engineering, Universiti Putra Malaysia. 20th - 21st November 2023.
- Al-Gabri, B. N. A., Nabilah, A. B., Aziz, F. A., & Karim, I. A. (2019, November). Numerical analysis of out-of-plane deformation of shear wall. In IOP Conference Series: Earth and Environmental Science (Vol. 357, No. 1, p. 012001). IOP Publishing.
- Mohammed, K., Karim, I. A., & Aziz, F. N. A. A. (2019). Composite Slab Numerical Strength Test Method Under Partial Connection Approach. In GCEC 2017: Proceedings of the 1st Global Civil Engineering Conference 1 (pp. 125-133). Springer Singapore.

Research Grants <2019 – recent in descending order>

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| • Potential of Pet Plastic Concrete Through Hydrolysis Process and A Coupling Agent Strengthening Mechanism. (Leader) | Geran Putra | 2023 – 2025 | RM50,000 |
| • Unraveling the Impact of Infill Wall Damage on Earthquake Evacuation Dynamics. (Member) | Geran Putra | 2023 – 2025 | RM20,000 |
| • Flexural Behaviour of High Reinforced Concrete Containing Rubber as Partial Fine Aggregate Replacement. (Member) | Geran Putra | 2018 – 2022 | RM50,000 |
| • Feasibility study and formulation of blended geopolymer based binder for alternative mortar material. (Member) | FRGS | 2019 – 2024 | RM97,500 |
| • Numerical and experimental evaluation of thin fiber reinforced concrete as shell element based on bond slip interaction. (Member) | FRGS | 2019 – 2023 | RM89,500 |

Community or Industry Projects/Grants

Projek Pemindahan Ilmu Kejuruteraan dan Alam (I-Kalam) – Akademi Tahfiz Mandarin, Pulau Ketam, Klang Selangor	2019
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Professional Services (Journal Reviewer, editorial works, etc.)

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| <ul style="list-style-type: none">● Panel Assessor
ETAC Panel Assessor for the Diploma in Civil Engineering program at Universiti Teknologi Mara, Jengka.
Assessment Panel for Semester Examination Questions in Matriculation Program, Ministry of Education Malaysia.
EAC Panel Assessor for Mock Accreditation of the Bachelor of Engineering (Hons) in Civil Engineering program at UiTM Shah Alam.
ETAC Panel Assessor for the Diploma in Civil Engineering program at Politeknik Sultan Abdul Halim Mu'adzam Shah (Polimas).
ETAC Panel Assessor at KKTM Sri Gading for the Diploma in Construction Engineering Technology (Advanced System) program.
External Assessor, External Examiner Audit ETAC for Diploma of Civil Engineering (DKA) Program, Politeknik Mukah, Sarawak.● Journal reviewer
The Global Congress on Construction, Material and Structural Engineering 2017
International Journal of Integrated Engineering 2020
Journal of Applications of Modelling and Simulation 2020
ASEAN Engineering Journal 2021
Structures 2022
Journal of Building Engineering 2023● Conference reviewer
11TH Symposium of Applied Engineering And Sciences 2023 (SAES 2023) |
2023

2023

2022

2021

2021

2018 |
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Teaching Experience

- Structural Analysis I
- Structural Analysis II
- Advanced Structural Analysis
- Advanced Solid Mechanics
- Reinforced Concrete Design
- Advanced Steel Design