



**FAKULTI  
KEJURUTERAAN**  
FACULTY OF ENGINEERING  
فاكولتي كجوروتراان

## CURRICULUM VITAE



### DR. NOR AZIZI SAFIEE

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**Google Scholar** : Nor Azizi Safiee (H-index = 12)  
**ResearchGate** : Nor Azizi Nor  
**Website** : -

### Education

- PhD (Structural Eng.), 2011 Universiti Putra Malaysia (UPM)
- MEng. (Structural Eng.), 2004 Universiti Teknologi Malaysia, Malaysia
- BEng. Hons (Civil Eng.), 2000 Universiti Teknologi Malaysia, Malaysia

### Research Interest

- Structural Engineering
- Masonry Wall
- Steel-concrete Composite Beam
- Finite Element Application

### Professional Membership & Learned Society

- Member, Board of Engineers, Malaysia
- International Association of Engineers (IAENG)

### Appointments

- |  |                   |
|--|-------------------|
| • Senior Lecturer, Civil Engineering Department, UPM     | Jun 2011– to date |
| • Penyelidik Bersekutu HRC, UPM                          | 2016 to 2019      |
| • Post-doctoral Researcher at Bradford University, UK    | 2014 to 2016      |
| • Tutor, Civil Engineering Department, UPM               | 2012 to date      |
| • Research Assistance, Faculty of Civil Engineering, UTM | 2000 to 2001      |

### Publications (2019 – recent in descending order)

- Sahib Al Mustawfi, **Nor Azizi Safiee**, Nabilah Abu Bakar, Izian Abd Karim & Noor Azline Mohd Nasir, Experiment and analysis of a hybrid composite post-tension plate girder, *Journal Science and Technology*, Vol 32(4), 2024
- S.G. Venille, A.B.Abdullah, N.A Mohd Nasir, **N.A.Safiee**, F.N.A. Abd Aziz, Experimental and Numerical Simulation of pull-out response in textile-reinforced concrete, *Structures*, 57, 2023
- M.N. Noor Azline, A.B. Nabilah, **S. Nor Azizi**, M. Ernaleza, A.A. Farah Nora Aznieta, Enhanced autogeneous self-healing of MgO blended composites incorporating with silica fume, *Cleaner Engineering & Technology*, 16, 2023
- Sanjay Gokul Venigalla, Abu Bakar Nabilah and **Nor Azizi Safiee**, Experimental and numerical simulation of bond-slip in textile-reinforced concrete for multiple bond lengths, *Journal of Physics: Conference Series*, Vol.2521, 2023
- N A Mohd Nasir, N B Bakar, **Nor Azizi Safiee**, F N A A Aziz and N Archnaah, Mechanical properties of blended-rubberized concrete, *Journal of Physics: Conference Series*, Vol.2521, 2023
- Dawood Salman Al-Jubori, Nabilah Abu Bakar, **Nor Azizi Safiee**, Aidi Hizami Alias, Noor Azline Mohd Nasir, Machine Learning Technique for the Prediction of Blended Concrete Compressive Strength, *KSCE Journal of Civil Engineering*, 2023
- Abu Bakar Nabilah, **Nor Azizi Safiee**, Noor Azline Mohd Nasir, Muhammad Fakhru Radzi Abd Rahman, Abdulrahman Khaleel Midhin, The mechanism for bond behavior of concrete with two-staged treated rubber filled steel tube, *European Journal of Environmental and Civil Engineering*, 2023, Vol 27(2), 647-662
- Gohar Nadeem, **Nor Azizi Safiee**, Nabilah Abu Bakar, Izian Abd Karim, Noor Azline Mohd Nasir, Experimental & Numerical Study of Self-locking adaptable interconnection for Modular steel Structures, *Journal of Building Engineering*, 2023, Vol 65, 105723, <https://doi.org/10.1016/j.jobe.2022.105723>
- Gohar Nadeem, **Nor Azizi Safiee**, Nabilah Abu Bakar, Izian Abd Karim, Noor Azline Mohd Nasir, Evaluation of Slip behavior of self-locking Modular Steel Connection, *Journal of Constructional Steel Research*, Vol. 197, 2022, 107467
- Gohar Nadeem, **Nor Azizi Safiee**, Nabilah Abu Bakar, Izian Abd Karim, Noor Azline Mohd Nasir, Finite Element Analysis of Proposed Self-locking Joint for Modular Steel Structures, *Applied Sciences*, Vol.11, Issue 19, 2021, pp 9277
- Nadiyah Loqman, **Nor Azizi Safiee**, Wong Hui Kah, Nabilah Abu Bakar, Noor Azline Mohd Nasir, Behavior of Interlocking Concrete Slab and Steel Composite Beam Incorporated Bolt Shear Connector, *Australian Journal of Structural Engineering*, Vol 22, Issue 3, 2021, 1-15
- Gohar Nadeem, **Nor Azizi Safiee**, Nabilah Abu Bakar, Izian Abd Karim, Noor Azline Mohd Nasir, Connection Design in Modular Steel Construction: A Review, *Structures*, 33, 2021, 3239-3256
- Noor Azline Mohd Nasir, Nabilah Abu Bakar, **Nor Azizi Safiee**, Farah Nora Aznieta Abd Aziz, Permeation durability properties of metakaolin blended concrete containing rubber, *European Journal of Environmental and Civil Engineering*, Vol.26, 11, 2021, pp 1-16
- Abdulmohaimen Imad Mohammed, Ahmed Awadh Ahmed Ba Rahman, Noor Azline Mohd Nasir, Nabilah Abu Bakar, **Nor Azizi Safiee**, Evaluation of the Compatibility of Modified Encapsulated Sodium Silicate for Self-Healing of Cementitious Composites, *Applied Sciences*, 2021, 11, 22, 10847
- Abdulrahman Khaleel Midhin; Abu Bakar Nabilah; Noor Azline Mohd. Nasir; **Nor Azizi Safiee**, Bond behavior in rubberised concrete filled circular steel tubes, *International Journal of Structural Engineering*, Vol. 10 (4), 2020, 293-306
- Abu Bakar Nabilah, Chan Ghee Koh, **Nor Azizi Safiee**, Noor Azline Mohd Nasir, Analysis of Conventionally Reinforced Coupling Beams using Non-linear Strut and tie Model, *Proceedings of the Institution of Civil Engineers-Structures and Buildings*, Vol 173, 6, 2020

- Abu Bakar Nabilah, Noaman Mohammed Ridha Noaman, Noor Azline Mohd Nasir, **Nor Azizi Safiee**, Experimental evaluation of flexural behavior of rubberized concrete beam, *Asian Journal of Civil Engineering*, Vol.20. Issue 7, 2019, pp 999-1005
- Abdallah Adnan Abdallah Oran, **Nor Azizi Safiee**, Noor Azline Mohd Nasir, Fresh and Hardened Properties of Self-Compacting Concrete using Metaokolin and GGBS as Cement Replacement, *European Journal of Environmental and Civil Engineering*, 2019, pp 1-4

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

- **Nor Azizi Safiee**, Said M.M.Aljmala, Performance of RCA Self-compacting Concrete incorporating Supplementary Cementitious Materials: An Overview, *11th International Symposium of Applied Engineering and Sciences (SAES 2023)* Conference Proceeding, 2023
- **Nor Azizi Safiee**, Noor Azline Mohd Nasir, Nabilah Abu Bakar, Blended Self Compacting Concrete incorporating Wood Ash and Quarry Dust, *Women in Science without Border (WISWB) 2022*
- **Nor Azizi Safiee**, Moad Mohamed Alost, Noor Azline Mohd Nasir, Nabilah Abu Bakar, Punching Shear Behavior of Rubberized Concrete, *IOP Conference Series: Earth and Environmental Science CENVIRON 2019*, 20-21 November 2019, Langkawi, Kedah, Malaysia

#### Research Grants <2019 – recent in descending order>

- |   |                      |             |           |
|---|----------------------|-------------|-----------|
| • Performance of High-Performance RCA Self Compacting Concrete incorporating Nano size Supplementary Cementitious Materials ( <b>Leader</b> )                         | IPS UPM              | 2023 - 2025 | RM20,000  |
| • Investigation on the Fundamental Behavior through Stress Mitigation of a New Proposed Flexible Socket Steel Connection for Modular Steel Building ( <b>Leader</b> ) | FRGS                 | 2019 - 2023 | RM82,000  |
| • Potential of Pet Plastic Concrete Through Hydrolysis Process and A Coupling Agent Strengthening Mechanism ( <b>Member</b> )   | Geran Putra UPM      | 2023 - 2025 | RM50000   |
| • An investigation of characterization and parametric effect of kenaf bast fiber in the properties of geopolymer kenaf reinforced concrete ( <b>Member</b> )          | FRGS                 | 2020 - 2024 | RM120,490 |
| • Feasibility study and formulation of blended geopolymer based binder for alternative mortar material ( <b>Member</b> )  | FRGS                 | 2019 - 2023 | RM97,500  |
| • Numerical and experimental evaluation of thin fibre reinforced concrete as shell element based on bond slip interaction ( <b>Member</b> )                           | FRGS                 | 2019 - 2023 | RM89,500  |
| • Flexural behavior of high reinforced concrete containing rubber as partial fine aggregate replacement ( <b>Member</b> )   | Geran Putra UPM      | 2018 - 2020 | RM50,000  |
| • Performance of self-healing concrete with encapsulated healing agent ( <b>Member</b> )  | Geran Putra IPS,     | 2019 - 2020 | RM20,000  |
| • Composite Beams with UHPC Precast Slab and Steel Beam Incorporated Recycled Bolted Shear Connector ( <b>Leader</b> )  | Geran Putra Berimpak | 2017 - 2019 | RM89,000  |

### Community or Industry Projects/Grants <2019 – recent in descending order>

- |   |             |          |
|---|-------------|----------|
| • Waste Management Demolition Concrete in Producing Sustainable City by Recycling Concrete Aggregate (RCA) MBPJ <b>(Leader)</b> | 2023        | RM30,000 |
| • UPM- Bentley BIM Lab (Structural Engineering Software, Bentley <b>(Member)</b> )  | 2020 - 2021 | RM150000 |
| • Projek Pemindahan Ilmu Kejuruteraan dan Alam (I-Kalam) – Akademi Tahfiz Mandarin, Pulau Ketam, Klang Selangor                 | 2019        |          |
| • Integrasi Kejuruteraan dan Alam 2021 bersama Sekolah Menengah Kebangsaan Jalan 3, Bandar Baru Bangi                           | 2021        |          |
| • Modul pemindahan ilmu bagi penggunaan bahan binaan dan pembinaan tempat cuci tangan untuk kegunaan pelajar di sekolah         | 2022        |          |

### Professional Services (Journal Reviewer, editorial works, etc.) <2019 – recent>

- |   |  |             |
|---|--|-------------|
| • <b>Consultant</b>   |  |             |
| Mechanical Properties Test of Composite Material for Taleem (M) Sdn Bhd               |  | 2019        |
| Pengujian Kekuatan Konkrit bagi Bangunan Cendana Apartment, Elite Park Development    |  | 2020        |
| • <b>Speaker</b>  |  |             |
| Kursus Design Steel Structure untuk Staf Perunding Arafah Sdn Bhd                     |  | 2022        |
| Penggunaan getah asli dalam penggunaan konkrit  |  | 2023        |
| • <b>Chairperson</b>  |  |             |
| Pembangunan Product Criteria Document (PCD) on Steel Products                         |  | 2020        |
| Working Group (WG) of Steel Product, Standard Department, SIRIM                       |  | 2020        |
| • <b>Conference committee</b>   |  |             |
| 1st Int. Conference on Innovation in Chemical Engineering & Technology 2021           |  | 2021        |
| • <b>Reviewer</b>   |  |             |
| Journal of Structural Engineering   |  | 2024        |
| European Journal of Environmental and Civil Engineering                               |  | 2023        |
| Structures and Buildings (Proceedings of the ICE )                                    |  | 2023        |
| Scientific Report   |  | 2023        |
| Neural Computing and Applications   |  | 2022        |
| Structures  |  | 2022        |
| Advances Structural Engineering   |  | 2022        |
| International Journal of Structural Engineering                                       |  | 2021        |
| International Journal of Geomate  |  | 2021        |
| Measurement   |  | 2021        |
| Journal of Building Engineering   |  | 2019        |
| • <b>Conference Reviewer</b>  |  |             |
| International Symposium on Applied Engineering & Science 2021                         |  | 2021        |
| • <b>Poster Presentation Judge Reviewer</b>   |  |             |
| 11th International Symposium on Applied Engineering & Science 2023                    |  | 2023        |
| • <b>Panel</b>  |  |             |
| Interview Panel for 'Hadiah Latihan Persekutuan' Kementerian Kesihatan Malaysia (KKM) |  | 2021 & 2023 |

### Teaching Experience

- Structure 2
- Structure 3
- Structure Analysis 1
- Lightweight Structure & Creative Design
- Structural Design 1
- Mechanic of Materials
- Structural Design 2
- Structural Design Steel & Timber
- Engineering Mechanics
- Steel Design & Construction
- Prestressed Concrete Structures