

CURRICULUM VITAE

A. PERSONAL DETAILS

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ACADEMIC QUALIFICATION

Ph.D in Structural Engineering (2019)

Universiti Putra Malaysia (UPM), Serdang, Selangor

MSc. in Computational Mechanics of Material and Structures (2007)

University of Stuttgart, Germany

BEng. (Hons) Civil Engineering (2005)

Universiti Teknologi MARA (UiTM), Shah Alam

B. PROFESSIONAL MEMBERSHIP

1. Board of Engineers Malaysia (BEM)- Registered member (54176A).
2. Institute Engineer Malaysia (IEM) – (G36919)

C. PUBLICATIONS

1. Nur Aqilah Zakaria, Ruqayyah Ismail, Fariz Aswan Ahmad Zakwan, Hazrina Ahmad, Muhamad Firdaus Rosle, Mohd Hisbany Mohd Hashim and Raizal Saifulnaz Muhammad Rashid (2023) Numerical investigation of fully confined RC column with carbon fiber reinforced polymer when expose to fire. Physics and Chemistry of the Earth, Parts A/B/C, 129, 103335, 1-15, **Impact Factor (IF) = 3.311 (2023) Quartile Q2**, <https://doi.org/10.1016/j.pce.2022.103335>
2. Norehan Othman, Hazrina Ahmad, Ruqayyah Ismail, Fariz Aswan Ahmad Zakwan, Goh Lyn Dee and Norlizan Wahid (2023). Behaviour of RC Columns Strengthened with Partial Carbon Fibre Reinforced Polymer (CFRP) Confinement. Lecture Notes in Civil Engineering, 350 LNCE, pp. 825 – 834. Paper presented at the International Symposium of the International Federation for Structural Concrete, fib Symposium 2023, Istanbul, Turkey. **CiteScore = 0.7 (2022) SCImago Journal Rank = 0.147 (2022)** http://doi.org/10.1007/978-3-031-32511-3_85
3. Ahmad Amirul Abdul Aziz, Hazrina Ahmad, Fariz Aswan Ahmad Zakwan, Ruqayyah Ismail, Norlizan Wahid and Goh Lyn Dee (2023). Modelling of Steel Fibre Reinforced Concrete Ribbed Slab Panel Using Finite Element Analysis. Lecture Notes in Civil Engineering, 350 LNCE, pp. 222 – 232. Paper presented at the International Symposium of the International Federation for Structural Concrete, fib Symposium 2023, Istanbul, Turkey. **CiteScore = 0.7 (2022) SCImago Journal Rank = 0.147 (2022)** http://doi.org/10.1007/978-3-031-32511-3_25

4. Muhammad Aidill Ngatiman, Hazrina Ahmad, Ruqayyah Ismail, Fariz Aswan Ahmad Zakwan, Mohd Hisbany Mohd Hashim (2022). Finite Element Analysis of Full And Partial Confinement Of Reinforced Concrete Column With Carbon Fiber Reinforced Polymer (CFRP). Paper presented at the AIP Conference Proceedings, 2532, 1 , 040010. **CiteScore = 0.7 (2022) SCImago Journal Rank = 0.164 (2022)** <https://doi.org/10.1063/5.0111076>
5. Ruqayyah Ismail, Raizal Saifulnaz Muhammad Rashid, Fariz Aswan Ahmad Zakwan, Hazrina Ahmad and Farzad Hejazi (2022). Axial Behaviour Of Strengthened Circular Hollow Reinforced Concrete Column With CFRP Partial Confinement. Paper presented at the Acta Polytechnica CTU Proceedings, , 33, 250-255. <https://doi.org/10.14311/APP.2022.33.0250>
6. Hazrina Ahmad, Mohd Hisbany Mohd Hashim, Afidah Abu Bakar, Fariz Aswan Ahmad Zakwan and Ruqayyah Ismail (2022). Comparative Flexural Performance Of Steel Fibre Reinforced Self-Compacting Concrete (SCFRC) Ribbed Slab With Different Fibre Provision Area. Paper presented at the Acta Polytechnica CTU Proceedings, 33, 1-7. <https://doi.org/10.14311/APP.2022.33.0001>
7. Fariz Aswan Ahmad Zakwan, Ruqayyah Ismail, Hazrina Ahmad and Raizal Saifulnaz Muhammad Rashid (2022). 3D Finite Element Simulation Of Reinforced Concrete Column Strengthened By Partially Confined Carbon Fibre Reinforced Polymer Under Concentric Loading. Paper presented at the Acta Polytechnica CTU Proceedings, 33 8-14. <https://doi.org/10.14311/APP.2022.33.0008>
8. Nur Aiman Suparlan , Hazrina Ahmad , Mohd Hisbany Mohd Hashim , Muhammad Amir Shafiq Rahamad Ali , Ruqayyah Ismail , Fariz Aswan Ahmad Zakwan (2021). Compressive strength of CFRP confined concrete under exposure to high temperature. Civil Engineering and Architecture, 9(5), 78-85. **CiteScore = 1.2 (2022), SCImago Journal Rank = 0.211 (2022) Quartile Q4** <https://doi.org/10.13189/cea.2021.091309>
9. Muhammad Amir Shafiq Rahamad Ali, Fariz Aswan Ahmad Zakwan, Hazrina Ahmad, Ruqayyah Ismail and Badrul Nizam Ismail (2022). Compressive Strength and Behaviour of Full and Partial CFRP Confined Concrete Columns. ESTEEM Academic Journal 18 (September 2022), 41-54, <https://ir.uitm.edu.my/id/eprint/68072/> https://uppp.uitm.edu.my/images/doc/ESTEEM_pdf_format/vol18sep/18550sep22.pdf

10. Fariz Aswan Ahmad Zakwan, Ruqayyah Ismail, Mohd Zaini Endut (2022). Assessment Programme Outcomes (POs) of the Solid Mechanics Course for an Engineering Diploma Programme. *International Journal of Practices in Teaching and Learning (IJPTL)* 2 (2), 21-25.
https://ijptl.uitm.edu.my/files/v2n2-aug2022/IJPTL_214.pdf
11. Ruqayyah Ismail, Clotilda Petrus, Caroline Marajan, Bahardin Baharom and Fariz Aswan Ahmad Zakwan (2022). The Online Student Portfolio Implementation at the Faculty of Civil Engineering, Universiti Teknologi MARA, Pulau Pinang Malaysia. *International Journal of Service Management and Sustainability (IJSMS)*, 7(1), 49-62. <https://ir.uitm.edu.my/id/eprint/58186>
<https://doi.org/10.24191/ij sms.v7i1.17778>
12. Norsalwa Aisyah Senu, Ruqayyah Ismail, Norlizan Wahid, Hazrina Ahmad, Fariz Aswan Ahmad Zakwan (2021). Compression Behaviour of Concrete Cylinder with Carbon Fibre Reinforced Polymer (CFRP) Confinement. *Scientific Research Journal*, 18(1), 27-41. <https://doi.org/10.24191/srj.v18i1.11394>.
13. Fariz Aswan Ahmad Zakwan, Ruqayyah Ismail, Renga Rao Krishnamoorthy and Azmi Ibrahim (2020). Predicted temperature development on protected cellular steel beam (CSB) under fire exposure. *Journal of Structural Fire Engineering*, 11(2), 205-220. **Impact Factor (IF) = 0.374 (2023) Quartile Q3**, <https://doi.org/10.1108/JSFE-10-2018-0030>
14. Syaza Nur Lylia Zulkifli, Mohd Hisbany Mohd Hashim, Ruqayyah Ismail, Fariz Aswan Ahmad Zakwan, Hazrina Ahmad, Badrul Nizam Ismail and Raizal Saifulnaz Muhammad Rashid (2020). Application of shape memory alloys (SMA) as a retrofit and strengthening component on reinforced concrete columns: Review paper. Paper presented at the *Journal of Physics: Conference Series*, , 1529(4) **CiteScore = 1.0 (2022), SCImago Journal Rank = 0.183 (2022)**
<https://doi.org/10.1088/1742-6596/1529/4/042104>
15. Fariz Aswan Ahmad Zakwan, Renga Rao Krishnamoorthy, Azmi Ibrahim and Ruqayyah Ismail (2020). Finite element analysis of coated (intumescent coating protection) cellular steel beam (CSB) expose to fire. Paper presented at the *IOP Conference Series: Materials Science and Engineering*, , 713(1).
<https://doi.org/10.1088/1757-899X/713/1/012032>
16. Ruqayyah Ismail, Goh Lyn Dee, Nik Nurul Nadia Nik Hasan, Azerai Ali Rahman and Fariz Aswan Ahmad Zakwan (2020). Shear performance of pretensioned prestressed concrete beam with steel fibre. Paper presented at the *IOP Conference Series: Materials Science and Engineering*, , 713(1)
<https://doi.org/10.1088/1757-899X/713/1/012027>

17. Ruqayyah Ismail, Raizal Saifulnaz Muhammad Rashid, Wong Chien Chan, Mohd Saleh Jaafar and Farzad Hejazi (2019). Compressive Behavior Of Concrete Cylinder Fully And Partially Confined By Carbon Fibre-reinforced Polymer (CFRP), 2019, Journal of Construction and Building Materials, 201, 201, 196 – 206, **SCImago Journal Rank = 1.89(2022) Quartile Q1** <https://doi.org/10.1016/j.conbuildmat.2018.12.095>
18. Fariz Aswan Ahmad Zakwan, Renga Rao Krishnamoorthy, Azmi Ibrahim and Abdul Manaff Mohd Ismail (2019). Performance based approach of cellular steel beam (CSB) exposed to fire. Journal of Mechanical Engineering, 16(1), 229-238. **CiteScore = 1.1 (2022) SCImago Journal Rank = 0.2 (2022) Quartile Q3**, <https://ir.uitm.edu.my/id/eprint/36410/1/36410.pdf>
19. Ruqayyah Ismail, Raizal Saifulnaz Muhammad Rashid, Fariz Aswan Ahmad Zakwan and Farzad Hejazi (2019). Experimental study of circular hollow reinforced concrete column strengthened with partial carbon fibre reinforced polymer (CFRP) confinement. Paper presented at the IOP Conference Series: Materials Science and Engineering, 615(1). **CiteScore = 1.1 (2022) SCImago Journal Rank = 0.249 (2022)** <https://doi.org/10.1088/1757-899X/615/1/012075>
20. Fariz Aswan Ahmad Zakwan, Renga Rao Krishnamoorthy, Azmi Ibrahim, and Ruqayyah Ismail (2018). A finite element (FE) simulation of naked solid steel beam at elevated temperature. International Journal of Integrated Engineering, 10(9), 7-13. **Impact Factor (IF) = 0.267 (2023) Quartile Q3** <https://penerbit.uthm.edu.my/ojs/index.php/ijie/article/view/2364>
21. Fariz Aswan Ahmad Zakwan, Renga Rao Krishnamoorthy, Azmi Ibrahim and Abdul Manaff Mohd Ismail (2015). Fire resistance performance of cellular steel beam (CSB) at elevated temperatures. Jurnal Teknologi, 76(9), 97-101. **Impact Factor (IF) = 0.203 Quartile Q3**. <https://doi.org/10.11113/jt.v76.5685>
22. Abdul Manaff Ismail, Ruqayyah Ismail, Fariz Aswan Ahmad Zakwan and Badrul Nizam Ismail (2010). Implementation and assessment of outcome based education (OBE) in the faculty of civil engineering at universiti teknologi MARA (UiTM). Paper presented at the 2010 2nd International Congress on Engineering Education: Transforming Engineering Education to Produce Quality Engineers, ICEED2010, 211-214. <https://doi.org/10.1109/ICEED.2010.5940793>

D. RESEARCH GRANTS

1. Optimizing The Strength Performance of Stainless Steel Cellular Beam Sscb At Elevated Temperature, 2021 - 2023, Myra Research Grant (GPM), Project Member, RM 20,000.00, Active
2. Moment-curvature Model of Reinforced Concrete Beam Strengthened With Shape Memory Alloy (SMA), 2021 - 2024, Fundamental Research Grant Scheme (FRGS), Project Member, RM 100,985.00, Active
3. A Novel Strength Parameters Study Of Shape Memory Alloy As Smart Retrofitting Techniques For Circular Bridge Column, 2020 - 2022, Fundamental Research Grant Scheme (FRGS), Project Member RM 116,200.00, Active
4. Constitutive Modeling of Reinforced Concrete Circular Columns Strengthened With Shape Memory Alloy Strips, 2019 - 2021, Fundamental Research Grant Scheme (FRGS), Project Leader, RM 63,500.00, Completed
5. Strength Characterization of The CFRP Confined Circular Reinforced Concrete Column Under High Temperature, 2019 - 2021, Fundamental Research Grant Scheme (FRGS), Project Member, RM 61,400.00, Completed
6. Fundamental Study of Retrofitted Reinforced Concrete Beam At Elevated High Temperature, 2014-2017, Research Development Grant Scheme (RAGS), Project Member, RM65,000.00, Completed
7. Basic Study of High Temperature Resistance on Hybrid Fibre Reinforced Concrete, 2012-2015, Fundamental Research Grant Scheme (FRGS), Project Leader, RM 68,500.00, Completed
8. Explosive Spalling And Mechanical Properties Study of High Strength Concrete Containing Polypropylene Fibre At High Temperature, 2009-2011, Dana Kecemerlangan, Project Leader, RM10,000, Completed.

E. INNOVATION AWARDS

1. Bronze Medal Award in 'Innovation and Invention Challenge in Engineering and Technology 2023 (iiCET 2023). Project Title: Smart Alloy Strengthening for Reinforced Concrete Beam Strengthening

2. Bronze Medal Award in Invention, Innovation and Design Exposition (IIDEX 2022). Project Title: Continuous Quality Improvement (CQI) Template For Outcome Based Education Implementation, Category: Professional and Academics - Innovation
3. Bronze Medal Award in 'Invention, Innovation and Design Exposition (IIDEX 2021). Project Title: Shape Memory Alloy Is the New Strengthening Material In Market
4. Silver Medal Award in 'Invention, Innovation and Design Exposition (IIDEX 2021). Project Title: Compression Behaviour of Concrete Cylinder with Partial Carbon Fibre Reinforced Polymer (CFRP) Confinement
5. Silver Medal Award in 'Invention, Innovation and Design Exposition (IIDEX 2021). Project Title: Compressive Behaviour of Different Configuration Of CFRP On RC Circular Columns
6. Silver Medal Award in 'The 3rd International Innovation, Invention and Design Competition 2020 Virtual IID (ICON 2020)'. Project Title: Self-Compacting Fibre Reinforced Concrete Ribbed Slab (SCFRC-RIB).
7. Silver Medal Award in 'The 3rd International Innovation, Invention and Design Competition 2020 Virtual IID (ICON 2020)'. Project Title: Calcine Ground Seashell Ash (CGSA-20): A New Green Admixture.
8. Silver Medal Award in 'The 8th International Innovation, Invention and Design Competition 2019 (INDES 2019)'. Project Title: Carbon Fibre Reinforced Polymer (CFRP) Partial Confinement Design for RC Column Strengthening Mechanism.
9. Gold Medal Award in Innovation Practices in Higher Education Expo 2014 (I – PHEX 2014) Project Title: Continuous Quality Improvement (CQI) Template for Course Level at Faculty of Civil Engineering, UiTM Pulau Pinang Category: Professional and Academics – Innovation
10. Gold Medal Award in Invention, Innovation and Design Competition (IID Johor 2013) Project Title: Student Learning Reflection Through Online Tool Category: Professional and Academics - Innovation
11. Bronze Medal Award in Invention, Innovation and Design Competition (IID Johor 2013) Project Title: Continuous Quality Improvement Template for Teaching and Learning, Category: Professional and Academics – Innovation
12. Gold Medal Award in International Invention, Innovation and Research Design Platform 2013 (IP 2013)

13. Project Title Enhancement of Continuous Quality Improvement Template for Teaching and Learning

14. Bronze Medal Award in International Invention, Innovation and Research Design Platform 2013 (IP 2013) Project Title Hybrid Fibre Concrete at High Temperature.

F. AREA OF INTEREST

- Structural Strengthening and Rehabilitation Work and Design.
- Smart Material for Structure Applications
- Carbon Fibre Reinforced Polymer Material for Structure Applications
- Steel Structure and Performance at High Temperature
- Engineering Higher Education (OBE Implementation)