



UPM
UNIVERSITI PUTRA MALAYSIA
POSTAL CODE 43400

**FAKULTI
KEJURUTERAAN**
FACULTY OF ENGINEERING
فاكولتي كجوروتراان

CURRICULUM VITAE



IR. DR. NOOR AZLINE MOHD. NASIR

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Google Scholar : Azline Mohd Nasir (H-index = 11)
ResearchGate : Noor Azline Mohd Nasir
Website :

Education

- PhD in Civil Engineering, 2012, University of Dundee, United Kingdom
- MSc in Kejuruteraan Awam dan Struktur, 2006, Universiti Kebangsaan Malaysia, Malaysia
- BEng (Hons) in Civil Engineering, 1999, Universiti Teknologi Mara, Malaysia
- Diploma in Civil Engineering, 1997, Politeknik Kota Bharu, Kelantan

Research Interest

- Concrete Materials and structures, Innovative use of cement combinations, High performance concrete, Concrete durability and performance, Assessment of Structures

Professional Membership & Learned Society

- Graduate Member, Institution of Engineers Malaysia (IEM)
- Graduate Member, Board of Engineers Malaysia (BEM)
- Member, Housing Research Center (HRC, UPM)

Appointments

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|---|--------------|
| • Final Year Academic Project Coordinator, Department of Civil Engineering, Faculty of Engineering, UPM | 2019 to date |
| • Post Graduate Co-ordinator, Faculty of Engineering, UPM | 2018 to date |
| • Design Engineer, DPA Consultancy Sdn. Bhd | 2016-2017 |
| • Signatory of Accreditation Committee, MS ISO/IEC 17025:2005, Faculty of Engineering, UPM | 2014 to 2022 |
| • Technical Manager, Construction Material Laboratory, Department of Civil Engineering, Faculty of Engineering, UPM | 2012 to date |
| • Committee Member, Workshop on Seismic Design of Building, MySET, UPM | 2013 – 2014 |
| • Co-ordinator, Material Laboratory, Department of Civil Engineering, Faculty of Engineering, UPM | 2012 to 2022 |
| • Senior Lecturer, Civil Engineering Department, UPM | 2012 to date |
| • Tutor Civil Engineering Department, UPM | 2001 to 2012 |
| • Graduate Engineer, Zaidun Leng Sdn. Bhd Kuala Lumpur | 2000 to 2001 |

Publications <2019 – recent in descending order>

- Jubori, D. S., Nabilah, A. B., Safiee, N. A., Alias, A. H., & **Nasir, N. A.** (2024). Machine Learning Technique for the Prediction of Blended Concrete Compressive Strength. *KSCE Journal of Civil Engineering*, 28(2), 817-835.
- Nabilah, A.B., Safiee, N.A., **Mohd Nasir, N.A.**, Abdul Rahman, M.F.R., and Midhin, A.K. (2023). The mechanism for bond behavior of concrete with two-staged treated rubber filled steel tube. *European Journal of Environmental and Civil Engineering*, 27(2), pp. 647-662. (<https://doi.org/10.1080/19648189.2022.2059704>)
- Gohar Nadeem, **Nor Azizi Safiee**, Nabilah Abu Bakar, Izian Abd Karim, Noor Azline Mohd Nasir (2023) Experimental & Numerical Study of Self-locking adaptable inter connection for Modular steel Structures, *Journal of Building Engineering*, 2023, Vol 65, 105723, <https://doi.org/10.1016/j.jobbe.2022.105723>
- Al-Ghazali Noor Abbas, Farah Nora Aznieta Abdul Aziz, Khalina Abdan, **Noor Azline Mohd Nasir**, Ghasan Fahim Huseien (2023) Experimental study on durability properties of kenaf fibre-reinforced geopolymer concrete, *Construction and Building Materials*, Volume 396, 2023, 132160,
- Mohammed, A. A., Nahazanan, H., **Nasir, N. A. M.**, Huseien, G. F., & Saad, A. H. (2023). Calcium-Based Binders in Concrete or Soil Stabilization: Challenges, Problems, and Calcined Clay as Partial Replacement to Produce Low-Carbon Cement. *Materials*, 16(5), 2020.
- **Noor Azline, M.N.**, Nabilah, A.B., Nor Azizi, S., and Farah Nora Aznieta, A.A. (2022). A comparative investigation on mechanical strength of blended concrete with surface modified rubber by chemical and non-chemical approaches. *Case Studies in Construction Materials*, 2022, 17, e01444
- Venigalla, S.G., Nabilah, A.B., **Nasir, N.A.M.**, Safiee, N.A. and Aziz, F.N.A.A (2022). Textile Reinforced Concrete as a Structural Member: A Review. *Buildings*. 12, 474. (<https://doi.org/10.3390/buildings12040474>)
- Wong, S.K., Bakar, N.A., Safiee, N.A., and **Nasir, N.A.M.** (2022). Parametric Study in Shear Buckling Capacity of Sinusoidal Corrugated Steel Web. *Asean Engineering Journal*, V12 (3).
- Nadeem, G., Safiee, N. A., Bakar, N. A., Abd Karim, I., & **Nasir, N. A. M.** (2022). Evaluation of slip behaviour of self-locking modular steel connection. *Journal of Constructional Steel Research*, 197, 107467.
- Al-Oran, A. A. A., Safiee, N. A., & **Nasir, N. A. M.** (2022). Fresh and hardened properties of self-compacting concrete using metakaolin and GGBS as cement replacement. *European Journal of Environmental and Civil Engineering*, 26(1), 379-392.
- **Mohd Nasir, N. A.**, Abu Bakar, N., Safiee, N. A., & Abdul Aziz, F. N. A. (2022). Permeation-durability properties of metakaolin blended concrete containing rubber. *European Journal of Environmental and Civil Engineering*, 26(11), 5113-5128.
- Nadeem, G., Safiee, N. A., Abu Bakar, N., Abd Karim, I., & **Mohd Nasir, N. A.** (2021). Finite element analysis of proposed self-locking joint for modular steel structures. *Applied Sciences*, 11(19), 9277.
- Loqman, N., Safiee, N. A., Kah, W. H., Abu Bakar, N., & **Mohd Nasir, N. A.** (2021). Behaviour of interlocking concrete slab and steel composite beam incorporated bolt shear connector. *Australian Journal of Structural Engineering*, 22(3), 236-249.
- Nadeem, G., Safiee, N. A., Bakar, N. A., Abd Karim, I., & **Nasir, N. A. M.** (2021, October). Connection design in modular steel construction: A review. In *Structures* (Vol. 33, pp. 3239-3256). Elsevier.
- Imad Mohammed, A., Awadh Ba Rahman, A., **Mohd Nasir, N. A.**, Bakar, N. A., & Safiee, N. A. (2021). Evaluation of the Compatibility of Modified Encapsulated Sodium Silicate for Self-Healing of Cementitious Composites. *Applied Sciences*, 11(22), 10847.
- AB Nabilah, CG Koh, NA Safiee, **NA Mohd. Nasir** (2020). Analysis of conventionally reinforced coupling beams using non-linear strut-and-tie model. *Proceedings of the Institution of Civil Engineers-Structures and Buildings*.
- AK Midhin, AB Nabilah, **NAM Nasir**, NA Safiee (2020). Bond behaviour in rubberised concrete filled circular steel tubes *International Journal of Structural Engineering* 10 (4), 293-306.

- Abu Bakar Nabilah, Chan Ghee Koh, Nor Azizi Safiee, **Noor Azline Mohd Nasir** (2019) Analysis of Conventionally Reinforced Coupling Beams using Non-linear Strut and tie Model, Proceedings of the Institution of Civil Engineers-Structures and Buildings.
- Abu Bakar Nabilah, Noaman Mohammed Ridha Noaman, **Noor Azline Mohd Nasir**, Nor Azizi Safiee (2019) Experimental evaluation of flexural behaviour of rubberized concrete beam, Asian Journal of Civil Engineering, Vol.20. Issue 7, 2019, pp 999-1005
- Nabilah, A. B., Koh, C. G., Safiee, N. A., & **Mohd. Nasir, N. A.** (2020). Analysis of conventionally reinforced coupling beams using non-linear strut-and-tie model. Proceedings of the Institution of Civil Engineers-Structures and Buildings, 173(6), 429-439.

Conference Proceedings/Academic Talks <2019 – recent in descending order>

- Aziz, F. N. A. A., Tan, A. R., Bakar, N. B., & **Nasir, N. A. M.** (2023, June). Properties of concrete with glass fibre reinforced polymer waste as partial replacement of fine aggregate. In Journal of Physics: Conference Series (Vol. 2521, No. 1, p. 012015). IOP Publishing.
- Aziz, F. N. A. A., Al-Ghazali, N. A., Jasmi, A. D., **Nasir, N. A. M.**, & Karim, I. A. (2023, March). Effect of Superplasticizer on the Properties of Kenaf Fibre-Reinforced Geopolymer Concrete. In International Civil Engineering and Architecture Conference (pp. 15-23). Singapore: Springer Nature Singapore.
- Abbas, A. G. N., Aziz, F. N. A. A., Abdan, K., & **Nasir, N. A. M.** (2022, February). Performance of Natural Fibre-Reinforced Geopolymer Composites Exposed to Sulphuric Acid. In AWAM International Conference on Civil Engineering (pp. 163-173). Singapore: Springer Nature Singapore.
- Venigalla, S. G., Nabilah, A. B., **Nasir, N. A. M.**, Safiee, N. A., & Aziz, F. N. A. A. (2022, February). Experimental Evaluation of Bond Properties in Textile-Reinforced Concrete by Digital Image Correlation. In AWAM International Conference on Civil Engineering (pp. 175-186). Singapore: Springer Nature Singapore.
- Safiee, N. A., Alost, M. M., **Nasir, N. A. M.**, & Bakar, N. A. (2020, April). Punching shear behavior of rubberized concrete slab. In IOP Conference Series: Earth and Environmental Science (Vol. 476, No. 1, p. 012051). IOP Publishing.
- Nabilah, A. B., Koh, C. G., Safiee, N. A., & **Mohd. Nasir, N. A.** (2020). Analysis of conventionally reinforced coupling beams using non-linear strut-and-tie model. Proceedings of the Institution of Civil Engineers-Structures and Buildings, 173(6), 429-439.
- Banawair, A. S., Qaid, G. M., Adil, Z. M., & **Nasir, N. A. M.** (2019, November). The strength of lightweight aggregate in concrete—A Review. In IOP Conference Series: Earth and Environmental Science (Vol. 357, No. 1, p. 012017). IOP Publishing.
- Danraka, M. N., Aziz, F. N. A. A., Jaafar, M. S., **Nasir, N. M.**, & Abdulrashid, S. (2019). Application of wood waste ash in concrete making: revisited. In GCEC 2017: Proceedings of the 1st Global Civil Engineering Conference 1 (pp. 69-78). Springer Singapore.

Research Grants <2019 – recent in descending order>

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| • An investigation of characterization and parametric effect of kenaf bast fiber in the properties of geopolymer kenaf reinforced concrete (Member) | FRGS | 2020-2023 | RM120,490 |
| • Evaluation of the physicochemical characteristics concerning strength and durability aspects of binary waste aluminium dross and quarry dust reinforced concrete (Member) | FRGS | 2020-2022 | RM119,200 |
| • Feasibility study and formulation of blended geopolymer based binder for alternative mortar material (Leader) | FRGS | 2019-2023 | RM97,500 |

• Formulating bacteria base material for self-healing concrete. (Member)	FRGS	2019-2022	RM98,000
• Investigation on the fundamental behavior through stress flow mitigation of a new proposed flexibel socket steel connection for modular steel building (Member)	FRGS	2019-2022	RM82,000
• Numerical and experimental evaluation of thin fibre reinforced concrete as shell element based on bond slip interaction (Member)	FRGS	2019-2022	RM89,500
• Performance of self-healing concrete with encapsulated healing agent (Leader)	Research Grant Scheme UPM	2019-2022	RM20,000
• Flexural behaviour of high reinforced concrete containing rubber as partial fine aggregate replacement (Leader)	Research Grant Scheme UPM	2018-2022	RM50,000
• Composite beams with UHPC precast slab and steel beam incorporated recyclable bolted shear connector. (Member)	Research Grant Scheme UPM	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 (Member)	2023	RM30,000
• UPM- Bentley BIM Lab (Structural Engineering Software, Bentley (Member)	2020-2021	RM150000

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

• Consultant		
Mechanical Properties Test of Composite Material for Taleem (M) Sdn Bhd		2019
Pengujian Kekuatan Konkrit bagi Bangunan Cendana Apartment, Elite Park Development		2020
• Journal reviewer		
Advances in Agricultural and Food Research Journal		2023
The Journal of The Institution of Engineers, Malaysia		2023
Case Studies in Construction Materials		2023
Journal of Science and Technology		2023
Journal Teknologi		2023
MDPI Recycling: Special Issue: Sustainable Materials from Waste and Renewable Sources		2023
Archives of Civil and Mechanical Engineering		2023
Materials		2022
Buildings		2022
Archives of Civil and Mechanical Engineering		2022
European Journal of Environmental and Civil Engineering		2021, 2022
European Journal of Environmental and Civil Engineering		2021
Journal of Engineering		2020
Pertanika Journal of Science & Technology		2019
• Conference reviewer		
Kyushu Institute of Technology International Symposium on Applied Engineering and Sciences (SAES2021) (2021)		2021

Teaching Experience

- Engineering Mechanics
- Civil Engineering Materials
- Mechanics of Materials
- Lightweight Structure and Creative Design
- Advanced Concrete Technology
- Structure Analysis I
- Soil Mechanics
- Strength of Materials
- Static Engineering