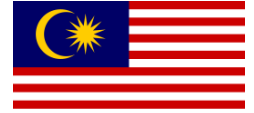




PhD supervisor



Assoc. Prof. Ir. Dr. Zahiraniza Mustaffa
Department of Civil and Environmental Engineering
Universiti Teknologi PETRONAS
Seri Iskandar, Perak, Malaysia

Language(s): English, Malay

Office postal address, phone number and e-mail:

Department of Civil and Environmental Engineering
Universiti Teknologi PETRONAS
32610 Bandar Seri Iskandar
Perak Darul Ridzuan
+605-3687320

zahiraniza@utp.edu.my

Research gate: <https://www.researchgate.net/profile/Zahiraniza-Mustaffa-3>

Potential areas for PhD supervision:

- Offshore engineering
- Pipeline engineering
- Geothermal energy

Supervising experience:

- 9 PhD students
- 9 MSc students

Employment history in last 5 years:

- 2003 – present Universiti Teknologi PETRONAS

Membership of professional association:

- Since 2020 Professional Engineer, Board of Engineers Malaysia (BEM)
- Since 2020 Professional Engineer, The Institution of Engineers Malaysia (IEM)
- Since 2016 Associate Member, American Society of Civil Engineer (ASCE)
- Since 2013 Chartered Engineer, Engineering Council
- Since 2012 Member, Institute of Marine Engineering, Science and Technology (IMarEST)

Education – since bachelor degree:

- ~ PhD in Pipeline Engineering
2007-2011, Delft University of Technology, The Netherlands
- ~ MSc in Water Resources Engineering
2001-2003, University of Alberta, Canada
- ~ Bachelor's Degree in Civil Engineering
1996-2000, Universiti Teknologi Malaysia, Johor Bahru, Malaysia



Selected recent papers:

1. Bakar, M.A.A., Mustafa Z., Idris N.N., and Ben Seghier M.E.A., (2021) Experimental program on the burst capacity of reinforced thermoplastic pipe (RTP) under impact of quasi-static lateral load, *Engineering Failure Analysis*, Vol. 128, 105626. [Q1, IF: 2.855]
2. Idris N.N., Mustafa Z., Ben Seghier M.E.A., Trung N.-T. (2021) Burst capacity and development of interaction rules for pipelines considering radial interacting corrosion defects, *Engineering Failure Analysis* [Q1, IF: 2.855], 121.
3. Mustafa Z., Halim A.H.A., Kim D.K., van Gelder P.H.A.J.M. (2021) Reliability assessment of the vertical well system subjected to erosion and tubing failure, *Ships and Offshore Structures* [Q2, IF: 1.506], 16, 2.
4. Al-Bared. M.A.M, Mustafa Z., Armaghani, D.J., Marto, A., Yunus, N.Z.M. and Hasanipannah M., (2021) Application of hybrid intelligent systems in predicting the unconfined compressive strength of clay material mixed with recycled additive, *Transportation Geotechnics*, Vol. 130, 100627. [Q2, IF: 3.293]
5. Ibrahim, M.B., Mustafa Z., Balogun, A.-L., Hamonangan Harahap, I.S., and Ali Khan, M., (2021) Advanced data mining techniques for landslide susceptibility mapping, *Transportation Geotechnics*, Vol. 12, 1, pp. 2430-2461. [Q2, IF: 3.102]
6. Guillal, A., Ben Seghier, M.E.A., Nourddine, A., Correia, J.A.F.O., Mustafa, Z., Trung, N. (2020) Probabilistic investigation on the reliability assessment of mid- and high-strength pipelines under corrosion and fracture conditions, *Engineering Failure Analysis* [Q1, IF: 2.855], 118.
7. Idris N.N., Mustafa Z., Ismil N.N.A. (2020) Burst capacity due to corrosion acting at radial orientation of pipeline, *Journal of Physics: Conference Series*, 1529, 3.
8. Idris N.N., Mustafa Z., Fauzi A.S.A. (2020) Experimental study on radial interacting corrosion for X42 pipelines, *IOP Conference Series: Earth and Environmental Science*, 476, 1.
9. Patel M.S., Liew M.S., Mustafa Z., Abdurasheed A.S., Whyte A. (2020) Downtime cost analysis of offloading operations under irregular waves in Malaysian waters, *Ocean Systems Engineering*, 10, 2.
10. Akram A., Mustafa Z., Badri Albarody T.M. (2020) Burst capacity of pipe under corrosion defects and repaired with thermosetting liner, *Steel and Composite Structures* [Q2, IF: 3.98], 35, 2.
11. Bakar M.A.A., Mustafa Z. (2020) Quasi-static indentation of reinforced thermoplastic pipe (RTP), *International Journal of Sustainable Construction Engineering and Technology*, 11, 1.
12. Patel M.S., Khalifa A.A., Liew M.S., Mustafa Z., Whyte A. (2020) Downtime cost analysis of offloading operations due to influence of partially standing waves in Malaysian waters and development of graphical user interface, *Annals of Operations Research*.
13. Patel M.S., Liew M.S., Mustafa Z., Yee N.C., Whyte A. (2020) Development of downtime cost calculator for offloading operations influenced by parametric rolling, *Journal of Marine Science and Engineering*, 8, 1.
14. Setvati M.R., Mustafa Z. (2019) Rehabilitation of corroded circular hollow sectional steel beam by CFRP patch, *Steel and Composite Structures* [Q2, IF: 3.98], 32, 1.
15. Pate M.S., Liew M.S., Mustafa Z., Andrew Whyte A.S.A. (2019) Downtime analysis of offloading operations: A review on operations research and future research prospect, *International Journal of Scientific and Technology Research*, 8, 10.
16. Hamed Y., Shafie A., Mustafa Z., Rusma N. (2019) Error-reduction approach for corrosion measurements of pipeline inline inspection tools, *Measurement and Control*, 52.



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17. Razavi Setvati M., Mustafa Z., Kim D. (2018) Fracture analysis of single-edge cracked tubular steel beam rehabilitated by CFRP sheets, 9th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering, CICE 2018.
18. Mustafa Z., Gelder P.V., Dawotola A.W., Yu S.Y., Kim D.K. (2018) Reliability assessment for corroded pipelines in series considering length-scale effects, International Journal of Automotive and Mechanical Engineering, 15, 3.
19. Edmund J.E., Mustafa Z.B. (2018) Numerical Analysis of Crack Failure of Reinforced Thermoplastic Pipe (RTP), MATEC Web of Conferences, 203.
20. Setvati M.R., Mustafa Z. (2018) Rehabilitation of notched circular hollow sectional steel beam using CFRP patch, Steel and Composite Structures [Q2, IF: 3.98], 26, 2.
21. Akram A., Mustafa Z., Albarody T.M.B., Edmund J.E. (2017) Numerical comparison between single layer woven flexible pipe and reinforced thermoplastic pipe, Journal of Mechanical Engineering and Sciences, 11, 4.
22. Namazi-saleh F., Kurian V.J., Mustafa Z., Tahan M., Kim D. (2017) Effect of bed vicinity on vortex shedding and force coefficients of fluid flow on an offshore pipeline, Journal of Marine Science and Application, 16, 1.
23. Jiwa M.Z., Kim D.K., Mustafa Z., Choi H.S. (2017) A systematic approach to pipe-in-pipe installation analysis, Ocean Engineering [Q1, IF: 3.302], 142.