

CURRICULUM VITAE



A. PERSONAL DETAILS

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Scopus

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UiTM EXPERT

<https://expert.uitm.edu.my/profile.php?id=UbE7AqBFYfcgQWVmTk6KBEss/JWTzYrIVBXTLhzvy0=>

ACADEMIC QUALIFICATION

MSc. in Civil Engineering (Geotechnic) (2010)
Universiti Teknologi MARA (UiTM) Shah Alam,
Malaysia

BEng. (Hons) Civil Engineering (2009)
Universiti Teknologi MARA (UiTM), Shah Alam

B. PROFESSIONAL MEMBERSHIP

1. Board of Engineers Malaysia (BEM)- Registered member (GE69564A)
2. Malaysia Board of Technologist (MBOT) – (PT22080086, GT22050457)
3. Society for Engineering Geology and Rock Mechanic Malaysia (SEGRM)

C. PUBLICATIONS

1. The effects of coconut shell ash admixed with lime in variation to curing time for road construction, **2023**, IOP Conference Series: Earth and Environmental Science 1205 (2023) 012069.
2. Determination of non-linear shear strength and volume changes on remolded granitic residual soil due to membrane penetration, **2023**, IOP Conference Series: Earth and Environmental Science 1205 (2023) 012069.
3. Effect of Mineralogical Content on Strength and Durability of Weathered Sedimentary Outcrop from Semanggol Formation, **2022**, IAP Conference Proceedings.
4. The Effects of Acidic and Salty Action on Cyclic Wetting-Drying of Sandstones, **2022**, IAP Conference Proceedings.
5. Influence of Membrane Penetration on Granitic Residual Soil in Consolidated Drained Triaxial Test, **2022**, Journal of Physics and Chemistry of the Earth.
6. Slope Mass Rating (SMR) Classification for Rock Slope Stability and Geohazard Vulnerability Assessment, **2022**, The International Journal of Integrated Engineering.
7. Interaction of Mineralogical Content with Engineering Properties of Selected Weathered Semanggol Formation Mudrocks, **2019**, Journal of Physics: Conference Series.
8. Shear Strength Behavior of Rock Joint Material Influenced by Different Weathering Grade, **2019**, Journal of Physics: Conference Series.
9. Rock Water Interaction on The Effect of Drying and Wetting to the Mechanical and Dynamic Properties of Tropical Weathered Granite, **2019**, Journal of Physics: Conference Series.
10. The Effect of Polyethylene Terephthalate (Road Barrier Waste) in Concrete Grade 40Mpa for Rigid Pavement, **2019**, Journal of Physics: Conference Series.
11. Citrus Fruit Peel Waste as a Source of Natural Coagulant for Water Turbidity Removal, **2019**, Journal of Physics: Conference Series.

12. Empirical Correlation of Tropical Weathered Sandstone Uniaxial Compressive Strength Using Unconfined Compression Test and Point Load Test, **2018**, Springer Link Chapter in Books, Regional Conference on Science, Technology and Social Sciences RCSTSS 2016.
13. Overall Assessment on Flexible Pavement Maintenance Activities along North-South Expressway Northern Region : From Alor Setar KM51.40 to Sungai Petani KM107.90, **2018**, AIP Conference Proceedings, International Conference on Advance Civil Engineering and Science and Technology ICACEST.
14. An Analysis of Traffic Flow and Control for Road Safety Audits at Jalan Berapit (State Route P131) Bukit Mertajam, Pulau Pinang, **2018**, AIP Conference Proceedings, International Conference on Advance Material and Technology.
15. Traffic Impact Analysis of Existing Road at Jalan Berapit (State Route P131), Bukit Mertajam, Pulau Pinang Based on Road Safety Audit (Stage 5) Guidelines, **2018**, AIP Conference Proceedings, International Conference on Advance Civil Engineering and Science and Technology ICACEST.
16. Development of Fruit Waste Natural Coagulant from Orange peels for Future Alternatives in Water Treatment, **2017**, Engineering, Science Technology Colloquium ESTEC 2017.
17. The Effect of Membrane Penetration in Consolidated Drained Triaxial Test on Granitic Residual Soil Grade V, **2017**, The International Convention on Civil Engineering ICCE2017.
18. Membrane Penetration Effect in Consolidated Drained Triaxial Test on Granitic Residual Soil, **2016**, Environment and Civil Engineering Technology International Conference ENVICET 2016.
19. Laboratory Footing Test on Partially Saturated Sandy Soil, **2016**, Jurnal Teknologi.
20. Relationship of Compression Index and Initial Void Ratio for Remolded Penang Marine Clay, **2015**, International Conference on Advances in Civil and Environmental Engineering ACEE 2015.
21. Classification of Intrusive Igneous Rocks Using Digital Image Processing: A Binary Approach, **2013**, Journal of Engineering Science, USM.
22. Digital Classification of intrusive Igneous Rocks, **2012**, Asian International Conference on Materials, Minerals and Polymer MAMIP 2012, USM.

D. RESEARCH GRANTS

1. Membrane Penetration Effect in Consolidated Drained Test, RAGS, MOE, RM58000, **2014-2016** (Leader)
2. Shear Strength Empirical Model of Jointed Rock, RAGS, MOE, RM80000, **2014-2016** (Member)
3. Micro and Macro Mechanical Properties Analysis of Tropical Weathered Rock Depending on Weathering Degree, RAGS, MOE, RM80000, **2014-2016** (Member)

E. INNOVATION AWARDS

1. Continuous Quality Improvement (CQI) Template for Outcome Based Education Implementation **(IIDEX 2022 - BRONZE)**
2. Limemansi as a Natural Coagulant for Water Purification **(PIID 2021 – SILVER)**
3. LemOr as a Natural Coagulant For Future Alternative Water Treatment **(IIDEX 2019 – SILVER)**
4. Optimizing Coagulation-Flocculation Process for Low Turbidity Water Using Fruit Waste Natural Coagulant **(PIID 2021 – GOLD)**
5. Monitoring Illumination Level Using LIGHT Q SYSTEM **(i-IDeA 2018 – SILVER)**
6. Innovative E-Learning on Engineering Geology Contents for Gen-Y **(e-ConDev 2017 – GOLD)**
7. Rubber Powder Modified Asphalt Mixture **(iMIT SIC 2017 - BRONZE)**
8. Development Of LIGHTQ SYSTEM To Monitor Illuminating Level in UITM Pulau Pinang **(PIID 2017 – SILVER)**
9. A Method for Production of Activated Carbon from Rubber Seed Coat Using Chemical Activation **(MIIEEX 2015 – SILVER)**
10. Lemon Peels as Fruit Waste Natural Coagulant for Future Alternatives in Water Treatment **(PIID 2015 – BRONZE)**
11. Continuous Quality Improvement (CQI) Template for Course Level at Faculty of Civil Engineering, UITM Pulau Pinang **(I-PHEX 2014 – GOLD)**
12. Digital Classification of Intrusive Igneous Rock **(REKACIPTA IID PERAK 2012 – BRONZE)**
13. Flexural Strengthening of Reinforced Concrete (RC) Beams Using Near Surface Mounted (NSM) Glass Fiber Reinforced Polymer (GFRP) Bars and Near Surface Mounted (NSM) Steel Bars **(IID ASEAN KEDAH 2011 – SILVER)**

F. AREA OF INTEREST

- Rock Mechanics
- Soil Mechanics
- Engineering Geology
- Geohazard Assessment
- Digital Image Processing