

## Nuril Izzaty Ishak (Dr.)

### Senior Lecturer

School of Construction and Quantity Surveying  
College of Built Environment (CBE)  
Universiti Teknologi MARA,  
40450 Shah Alam,  
Selangor, Malaysia.



012-2481989

[izzeaty@uitm.edu.my](mailto:izzeaty@uitm.edu.my)

Google Scholar: <https://scholar.google.com.my/citations?user=T3-1t3sAAAAJ&hl=en&oi=ao>

ResearchGate: <https://www.researchgate.net/profile/Nuril-Ishak>

## Areas of Expertise

Concrete Technology, Advanced Cementitious Composites, Green Building Materials, Green Concept

## Academic Qualifications

PhD in Civil Engineering (Concrete Technology), 2020, Universiti Sains Malaysia, Engineering Campus

MSc in Project Management, 2015, Universiti Sains Malaysia, Main Campus

BSc in Construction Management (Hons), 2012, Universiti Sains Malaysia, Main Campus

## Teaching and Learning

1. Bachelor's Degree, CMA 412 – Structure Mechanics, (Lecture/Tutorial)
2. Bachelor's Degree, CMA 422 - Structural Design, (Lecture/Tutorial)
3. Bachelor's Degree, CMA 414 - Building Construction and Materials, (Lecture/Laboratory)
4. Bachelor's Degree, CMA 483 - Quality, Safety, Health, and Environment, (Lecture)
5. Bachelor's Degree, CMA 544 - Civil Works Construction (Lecture/Tutorial)
6. Bachelor's Degree, CMA 674 - Project Evaluation and Development (Tutorial)

## Students Supervision

### Master by Research:

1. Nurul Hana Binti Mohamad Zaini (2023255096), Influence of Nano-POFA on Hydration Reaction and Harden Properties of Self-Curing Mortar, 2023 (On going).

2. Siti Nor Balkis Binti Abdullah (2023293074), Effect of Nano-RHA on Physio-mechanical and Built Environment Properties of Lightweight Cementitious Composites Concrete, 2023 (On going).

### **Master by Coursework:**

1. Nur Hidayah Binti Mohamad Rosli (2021674238), Implementation of Bubble deck System in The Malaysian Construction Industry, 2023 (Completed)

### **Degree Dissertation**

1. Nur Baiduri Binti Shamsaini@Shamsaimi (2022864308), Properties of Green Mortar Containing Fly Ash and GGBS, 2024 (On going)
2. Nur Syuhada Binti Suhaimi (2022875816), Effect of High Silica Waste Materials on Properties of Green Mortar, 2024 (On going)
3. Nurul Nabilla Binti Ma'arop (2022602636), Strength and Durability Performance of High Strength Lightweight Green Concrete, 2024 (On going)
4. Muhammad Faidz Bin Zainuddin (2022864482), Mechanical and Durability Properties of High Strength Green Concrete, 2024 (On going)
5. Muhammad Haziq Idzham Bin Abd Razak (2022942871), Properties of High Strength Concrete Containing Waste Material, 2023 (Completed)
6. Awang Abdul Aziz Bin Awang Khalis (2021853198), Implementing Ternary Supplementary Cementitious Binder on Properties of High Strength Green Concrete, 2023 (Completed) – *Best Dissertation Award*
7. Farah Nabila Binti Faizal Hanizam (2021852932), Influence of Palm Oil Fuel Ash and Metakaolin on Properties of High Strength Green Mortar, 2023 (Completed)
8. Nurul Hana Binti Mohamad Zaini (2021615136), Effect of POFA and GGBS as Partial Replacements of Cement in Ternary Blended Binder Mortar, 2023 (Completed)
9. Muhammad Afdhal Bin Shahrani (2019805656), Use of Ternary Blended Binder Containing RHA and GGBS towards the Properties of High Strength Lightweight Concrete (HSLWC), 2022 (Completed)
10. Fatin Shahirah Binti Roslan (2020983055), A study on the Level of Safety Implementation in Malaysian Construction Industry, 2022 (Completed)
11. Alif Ikmal Bin Mat Izman (2021163701), Implementation of Quality Assurance (QA) and Quality Control (QC) in Malaysian Construction Industry, 2022 (Completed)

## **Publications**

1. **Ishak, N. I.**, Johari, M. A. M., Hashim, S. F. S., Mijarsh, M.J.A. (2023, October). Hydration reaction of Pozzolanic Binders containing RHA and GGBS. AIP Conference Proceedings (Vol.2881, No.1, p. 060002). AIP Publishing
2. **Ishak, N. I.** (2022, November). A Study on Hydrated Phases of Ternary Blended Binder via Thermal Analysis. Asian Journal of Fundamental and Applied Sciences, 3(3), 54-61
3. **Ishak, N. I.** (2022, November). Effect of Steam Curing Condition on Strength and Water Absorption Properties of High Strength Green Concrete. International Journal of Advanced Research in Engineering Innovation, 4(3), 27-33

4. **Ishak, N. I.**, Johari, M. A. M., Hashim, S. F. S. (2017, October). Effects of using blended binder of RHA and GGBS on the properties of Concrete. AIP Conference Proceedings (Vol.1892, No.1, p. 020027). AIP Publishing LLC
5. **Ishak, N. I.**, Mustafa Kamal, E., & Yusof, N. A. (2017). The Green Manufacturer's compliance with green criteria throughout the life cycle of building material. SAGE Open, 7(3)
6. Kamal, E. M., Yusof, N. A., & **Ishak, N. I.** (2015). The compliance of green criteria into the life cycle of building materials: A theoretical review. Advances in Environmental Biology, 9 (3), 126-129

## Innovation, Commercialization & Entrepreneurial

1. AMS Bricks: Sustainable Bricks in Livable Environment. Invention, Innovation & Design Exposition (IIDEX 2023), UiTM Puncak Alam (Dec 2023) – *Gold Medal*
2. Effect of HRWR on the Properties of HSC containing POFA. Penang International Invention, Innovation & Design (PIID 2023), UiTM Penang (May 2023) - *Silver Medal*
3. Implementing Ternary Supplementary Cement Binder on Properties of High-Strength Green Concrete. Penang International Invention, Innovation & Design (PIID 2023), UiTM Penang (May 2023) - *Bronze Medal*
4. Strength and Water Absorption of Ternary Blended Mixture of High-Strength Green Mortar. Penang International Invention, Innovation & Design (PIID 2023), UiTM Penang (May 2023) - *Bronze Medal*
5. Experimental Analysis of Strength and Water Absorption Properties of Ternary Cement Mortar containing POFA and Metakaolin. Penang International Invention, Innovation & Design (PIID 2023), UiTM Penang (May 2023) - *Bronze Medal*

## Services & Administration

1. Koordinator Latihan Industri Sarjana Muda Pengurusan Pembinaan (CFAP246), (1/01/2023 – 31/12/2024)
2. Panel Penilai bagi Kertas Cadangan Geran Penyelidikan Dalaman Peringkat UiTM, (24/06/2023 – 15/09/2023)
3. 'Resource Person' bagi Kursus 'Structure Mechanics' (CMA412), Sarjana Muda Pengurusan Pembinaan (CFAP246), (01/03/2023 – 01/03/2026)
4. AJK Etika Penyelidikan bagi Program Sarjana Muda Sains (Kepujian) Pengurusan Pembinaan (AP246), (1/06/2022 – 31/05/2024)
5. Committee Member for Task Force KAB Kampus Hijau – "We Are Alam Bina" College of Built Environment, UiTM Shah Alam, (2022 – 2025)
6. Committee Member for Task Force BESH (SAP 2022-2025) – College of Built Environment, UiTM Shah Alam, (2022 – 2025)
7. Koordinator Kursus dan Latihan CMCare bersama Universiti Kathmandu, (15/04/2022 – 31/12/2022)
8. Conference Technical Committee Member - The 3<sup>rd</sup> International Conference on Built Environment and Engineering 2022 (IConBEE 2022), (15/01/2022 – 30/06/2023)
9. Pegawai Pengiring Program CMCare International Outbound Mobility (COMP) Universiti Kathmandu, Nepal, (18/09/2022 – 24/09/2022)

## Other Activities

### Appointment as Jury

1. International Invention, Innovation, and Design Exposition 2023 (IIIBEEEX 2023), UiTM Puncak Alam, Selangor.
2. 3<sup>rd</sup> International Conference on Built Environment and Engineering 2022 (IConBEE 2022), UiTM Shah Alam, Selangor

### Appointment as Reviewer

1. Malaysian Journal of Sustainable Environment, 2023