

CURCULUM VITAE



A. **PERSONAL DETAILS**

1. Name : Dr. Nurizaty Binti Zuhan
2. Date of Birth : 21-01-1994
3. Sex : Female
4. Office Address : Faculty of Civil Engineering, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia
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<https://scholar.google.com/citations?user=PV-wp4MAAAAJ&hl=en>

B. **BRIEF PERSONAL HISTORY**

Nurizaty Zuhan did her foundation of Engineering in Universiti Teknologi MARA (UiTM), Malaysia in 2013. Then, she obtained her degree in Civil Engineering from Universiti Teknologi Malaysia, Malaysia in 2017. Subsequently, she obtained a PhD in Civil Engineering from the same institution through fast track program in 2021. She started serving in UiTM in April 2022 as a senior lecturer at the Faculty of Civil Engineering. Her research interest includes composite materials, composite structure, finite element method, fire, and earthquake engineering.

C. ACADEMIC QUALIFICATION

| No. | Name of Institution | Degree/Qualification | Date awarded |
|------------|---|---------------------------------------|---------------------|
| 1. | Universiti Teknologi Malaysia, Malaysia | PhD in Civil Engineering | 2021 |
| 2. | Universiti Teknologi Malaysia, Malaysia | Bachelor of Engineering (Hons.) Civil | 2017 |
| 3. | Universiti Teknologi MARA, Malaysia | Foundation in Engineering | 2013 |

D. WORKING EXPERIENCE

| | | |
|----|--------------|---|
| 1. | 2022-Present | Senior lecturer, Faculty of Civil Engineering in Universiti Teknologi MARA (UiTM) - Teaching structural engineering subjects such as reinforced concrete design to EC2 and supervising final year project students |
| 2. | 2022 | Director's Assistant Cum Project Engineer in Telford Engineering (M) Sdn. Bhd. - Managing document such as drawing and progress report for the project, superimposed the autocad drawing and managing site construction work (PDA Test, Concrete test and Inspection) |
| 3. | 2019 - 2022 | Teacher at KUMON Tuition Class - Educated the student and keep them in track with assignments, marked about 200 paper per day. |
| 4. | 2016 | Industrial Trainee in Jabatan Kerja Raya - Participated in road designing for project "Pembinaan Flyover", conducted road checking and measurement for road maintenance purpose. |
| 5. | 2012 - 2021 | Home Tutor for UPSR, PT3, SPM candidates - Teaching mathematic and additional mathematic subjects. |
| 6. | 2013 - 2020 | Reserve Office Training Unit (ROTU) in Palapes UTM - Participated in training for army and was appointed as Young Officer. |
| 7. | 2013 | Cashier at Pantai Timur Supermarket - Reported RM 5,000 to RM 10,000 daily revenue by creating financial statement. |

E. PROFESSIONAL QUALIFICATIONS

1. Graduate Engineer, Board of Engineers Malaysia (BEM) - Since 2021

F. AREA OF RESEARCH

Composite structure, composite material, fire and earthquake engineering, finite element method,

G. PHD THESIS

Post Fire Performance of Partially Damaged Concrete with Fly Ash Filled Hollow Steel Column (2021)

H. RESEARCH GRANTS

I. PUBLICATION

1. **Nurizaty, Z.**, Mariyana, A. A. K., Shek, P. N., Najmi, M. M., (2020). A Review on Utilization of Different Concretes as In-Filled Steel Hollow Column Subjected to Fire Loading. *Journal Structure and Fire Engineering*.
2. **Nurizaty, Z.**, Mariyana, A. A. K., Shek, P. N., Rahman, M. S. A., Najmi, M. M., (2019). Heat transfer analysis on green concrete filled steel hollow column subjected to fire using ABAQUS. In 2019 6th International Conference Application of Structure Fire Engineering (ASFE).
3. **Nurizaty, Z.**, Mariyana, A. A. K., Shek, P. N., Rahman, M. S. A., Najmi, M. M., Iqbal, M. K., (2019). A review on concrete-filled steel hollow column subjected to fire and cyclic loadings. In 2019 IOP Conference Series: Earth and Environment Science 220 (012031).
4. **Nurizaty, Z.**, Mariyana, A. A. K., Shek, P. N., Najmi, A. M. M., Adebayo, M. K., Sif, M. T. M. A. and Jaya, R. P. (2021) 'Experimental Investigation on Post-Fire Performances of Fly Ash Concrete Filled Hollow Steel Column', 10(4), pp. 335–344.
5. Aida, M., Kadir, A., Khiyon, M. I., Rahman, A., Sam, M., Hasanah, N., Shukor, A., Najmi, M., Ali, M. and **Zuhan, N.** (2019) 'Performance of spent garnet as a sand replacement in high-strength concrete exposed to high temperature'.
6. Mujedu, K. A., A-Kadir, M. A., Ismail, M., Mastor, M. N. M. A., **Zuhan, N.**, Aluko, O. G. and Sif, M. T. M. A. (2021) 'Structural performance of reinforced self-compacting concrete columns produced with palm oil fuel ash', IOP Conference Series: Materials Science and Engineering, 1153(1), p. 012006.
7. Najmi, A. M., Mariyana, A. K., Shek, P. N., **Nurizaty, Z.**, Ramli, M. Z., Alel, M. N. A., Mujedu, K. A., Aluko, O. G. and Tohami, M. (2021) 'Effect of Water-Cement Ratio on Mechanical Properties of Rubberized Fly Ash Concrete', IOP Conference Series: Materials Science and Engineering, 1144(1), p. 012017.
8. Najmi, A. M., Mariyana, A. K., Shek, P. N. and **Nurizaty, Z.** (2020) 'Hardened properties of concrete with different proportion of crumb rubber and fly ash', IOP Conference Series: Materials Science and Engineering, 849(1).
9. Khiyon, M. I., Kadir, M. A. A., Mohd Sam, A. R., Hasanah, N., Mohamed, R. N., Yussof, M. M., Mohamad Zukri, S. N. N. and **Nurizaty, Z.** (2019) 'The effect of concrete cover thickness subjected to elevated temperatures', IOP Conference Series: Materials Science and Engineering, 620(1).
10. Siti Nurul Nureda, M. Z., Mariyana, A. K., Iqbal Khiyon, M., Abdul Rahman, M. S. and **Nurizaty, Z.** (2017) 'Investigation on dynamic performance of concrete column crumb rubber steel and fiber concrete', IOP Conference Series: Materials Science and Engineering, 271(1)

J. CONSULTANCY

1. Client: Jabatan Kerja Raya
Year: 2019 – 2021
Work Scope: Cyclic Performance of Nib and Corbel Connection
Develop numerical simulation based on finite element method by using ABAQUS software in order to determine cyclic performances of Nib and Corbel Connection of precast beam to column connection. The objective of this project is to determine the load versus elongation curves, stress to strain and moment to displacement curves for the numerical models of:-
 - a) Nib Connection
 - b) Corbel Connection

The results from each numerical simulation will be validated with the experimental results.

2. Client : SIRIM Malaysia
Year: 2020 – 2021
Work Scope: Heat Transfer Analysis of Steel Pipes
Develop a numerical simulation based on finite element method by using ABAQUS software to determine the heat transfer of steel pipe with various cases and thickness. The objective of this project is to determine temperature versus time curves at required points for each cases. Then, the results from simulation will be validate with experimental result.
3. Client : Jabatan Kerja Raya Malaysia
Year: May 2017 – July 2017
Work Scope: Specification Development
This project aim to develop of specification performance based in-situ concrete cover monitoring to be used in Malaysia as guidelines for concrete cover monitoring process.

K. AWARDS AND HONOURS

1. Best Exhibition Award, Beyond Bauhaus Exhibition
Berlin, Germany (2019)
Winner for SEER GreenCon Research Project
2. Gold Medal, Malaysia Technology Expo
Kuala Lumpur, Malaysia (2018)
Winner Gold Medal award for Cyclic Performance of SEER GreenCon

3. Bronze Medal, Exhibition and Competition Industrial Art and Technology
Johor, Malaysia (2018)
Winner Gold Medal award for Cyclic Performance of SEER GreenCon
4. Bronze Medal, Exhibition and Competition Industrial Art and Technology
Johor, Malaysia (2017)
Winner Gold Medal award for Cyclic Performance of SEER RubCon
5. Best Presentation Award, IDEERS competition
Taipei, Taiwan (2017)
Presenting Universiti Teknologi Malaysia as Postgraduate Team in Cyclic
Performances Design
6. Best Architecture Design Award , IDEERS competition
Taipei, Taiwan (2016)
Presenting Universiti Teknologi Malaysia as Undergraduate Team in
Cyclic Performances Design
7. Faculty Academic Award
Johor Bahru, Malaysia (2017)
Excel in B.Eng study

