

CURRICULUM VITAE



A. **PERSONAL DETAILS**

1. Name : Dr. Norfarah Nadia Ismail
2. Date of Birth : 13-10-1987
3. Sex : Female
4. Office Address : Faculty of Civil Engineering,
Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia
5. Tel: : (6) 03-55435214 (office)
(6) 016-4128021 (h/p)
6. E-mail : norfarahnadia@uitm.edu.my

B. **BRIEF PERSONAL HISTORY**

Norfarah Nadia received her bachelor's degree from Universiti Kebangsaan Malaysia in 2010 and went to read her Master of Engineering in Chung-Ang University, Seoul, South Korea, in which she graduated in 2012. She then completed her PhD in Civil Engineering (Pavement Engineering) from UKM in 2017. Since 1st of September 2020, she is working as a Senior Lecturer at the Faculty of Civil Engineering, Universiti Teknologi MARA (UiTM), Malaysia. Her research interests include pavement engineering and highway materials, transportation engineering and non-destructive testing for pavement and geotechnical site.

C. **ACADEMIC QUALIFICATION**

No.	Name of Institution	Degree/Qualification	Date awarded
1.	Universiti Kebangsaan Malaysia	Ph.D in Civil Engineering (Pavement Engineering)	2017
2.	Chung-Ang University, Seoul, South Korea	Master of Engineering (Geotechnical Engineering)	2012
3.	Universiti Kebangsaan Malaysia	Bachelor of Engineering with Honours (Civil & Structural Engineering)	2010

D. **WORKING EXPERIENCE**

1.	2020-Present	Senior lecturer, Faculty of Civil Engineering in Universiti
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		Teknologi MARA (UiTM) - Teaching Pavement to undergraduate students
2.	2017-2020	Assistant Professor, Kulliyah of Engineering in International Islamic University Malaysia (IIUM) – Teaching Pavement Engineering, Highway and Traffic Engineering, Geotechnical Engineering to undergraduate students
3.	2017	Lecturer, Faculty of Engineering, Technology and Built Environment at UCSI University – Teaching Numerical Analysis to undergraduate students
4.	2010-2012	Researcher, Soil Dynamic Laboratory, School of Civil & Environmental Engineering, Chung-Ang University, Seoul, South Korea

E. **PROFESSIONAL QUALIFICATIONS**

1. Graduate Engineer, Board of Engineers Malaysia (BEM) - Since 2017
2. Ordinary Member, Road Engineering Association Malaysia (REAM) - Since 2018

F. **AREA OF RESEARCH**

Pavement engineering and highway materials, pavement monitoring, transportation engineering, non-destructive testing for evaluation of pavement and geotechnical sites, Spectral Analysis of Surface Waves (SASW).

G. **PHD THESIS**

The application of CAP-SASW and ERS method in determination of sub-surface profile of flexible taxiway in the airport (2017)

H. **PUBLICATION**

1. Nur Aina Farahana Abdul Ghani, **Norfarah Nadia Ismail**, Wan Nur Aifa Wan Azahar, Faridah Abdul Rahman, Amelia Wong Azman, Nur Izzi Md Yusoff, Sri Atmaja P Rosyidi, "Classification of rigid pavement at airport taxiway using shear wave velocity and elastic modulus derived from Spectral Analysis of Surface Waves (SASW) method", *submitted to Journal of Failure Analysis and Prevention*, 2021
2. Sri Atmaja P Rosyidi, Suzielah Rahmad, Nur Izzi Md Yusoff, Aini Hazwani Shahrir, Ahmad Nazrul Hakimi Ibrahim, **Norfarah Nadia Ismail**, Khairiah Haji Badri," Investigation of the chemical, strength, adhesion and morphological properties of fly ash based

- geopolymer-modified bitumen", *Construction and Building Materials*, Vol 255, 2020
3. Sri Atmaja P Rosyidi, Nur Izzi Md Yusoff, **Norfarah Nadia Ismail**, Muhamad Razuhanafi Mat Yazid, "Integrated time-frequency wavelet analysis and impulse response filtering on SASW test for rigid pavement stiffness prediction", *Ain Shams Engineering Journal*, 2020
 4. Wan Nur Aifa Wan Azahar, Ramadanshah Putra Jaya, Mastura Bujang, Norhidayu Kasim, **Norfarah Nadia Ismail**, Nadiah Md Husain, Nur Khairiyah Basri, "Assessment Ranking for Green Pavement Material Elements", *Materials Science and Engineering*, 917, 2020.
 5. **Norfarah Nadia Ismail**, Nur Izzi Md Yusoff, Wan Nur Aifa Wan Azahar, Ahmad Bukhari Ramli, Nadiah Md Husain, Norhidayu Kassim. 2019. Higher Modes and Superposed Mode Behavior for Flexible Pavement Layer System. *Materials Science and Engineering*, 811, 2020
 6. **Norfarah Nadia Ismail**, Nur Izzi Md. Yusoff, Nadiah Md Husain, Jamaluddin Mat, Maisarah Ali, "The Application of CAP-SAS Method in Determination of Sub-Surface Profile of Flexible Taxiway in the Airport", *Materials Science and Engineering*, 512. pp 1-6. ISSN 1757-8981, 2019.
 7. Nadiah Md. Husain, **Norfarah Nadia Ismail**, Kamsiah Mohd Ismail, Deprizon Syamsunur, Mariati Mohd Taib, "Development on High Workability Grout on Semi Rigid Wearing Course". *Materials Science and Engineering*, 512. pp 1-6. ISSN 1757-8981, 2019
 8. Faridah Hanim Khairuddin, Ahmad Nazrul Hakimi Ibrahim, Suzielah Rahmad, Nur Izzi Md Yusoff, Khairiah Badri, Noor Aina Misnon, **Norfarah Nadia Ismail**, "Aging Effect on the physical properties of polyetherine modified bitumen", *International Journal of Engineering & Technology*, 7 (4.33), 0 pp. 410-413. ISSN 2227-524X, 2018
 9. **Norfarah Nadia Ismail**, Nur Izzi Md. Yusoff, Khairul Anuar Mohd Nayan, Norinah Abd Rahman, Sri Atmaja P. Rosyidi, Amiruddin Ismail, "Effect of input source energy and the measurement of flexible pavement deflection using the SASW method", *International Journal of Pavement Engineering*. 20 (4) pp 382-392, 2017
 10. **Norfarah Nadia Ismail**. *Aplikasi Kaedah CAP-SASW dan ERS dalam Penentuan Profil Subpermukaan Jalan Rayap Boleh Lentur di Lapangan Terbang*. PhD Thesis. Universiti Kebangsaan Malaysia, Malaysia, 2017
 11. **Norfarah Nadia Ismail**, Nur Izzi Md. Yusoff, Syuraizat Sabarudin, Khairul Anuar Mohd Nayan, Norinah Abd Rahman, Amiruddin Ismail. "Study on the effects of receiver distance, height and mass of dropping steel balls on SASW test results, *Jurnal Teknologi* 78(7-2): 83-89, 2016
 12. Wardati Hashim, Mohd Rosli Hainin, **Norfarah Nadia Ismail**, Nur Izzi Md Yusoff, Mohd Ezree Abdullah, Norhidayah Abdul Hassan.

- "Evaluating the Cooling Rate of Hot Mix Asphalt in Tropical Climate", *Jurnal Teknologi* 78.4 : 97-104, 2016
13. Nur Izzi Md. Yusoff, Sentot Hardiwoyono, **Norfarah Nadia Ismail**, Mohd Raihan Taha, Sri Atmaja P. Rosyidi, Khairul Anuar Mohd Nayan. "Measurements of the elastic modulus of pavement subgrade layers using the SASW and FWD test methods", *The Baltic Journal of Road and Bridge Engineering* 10(2): 174-181, 2016
 14. Ahmed Mancy Mosa, **Norfarah Nadia Ismail**, Nur Izzi Md Yusoff, Muhammad Ali Mubarak, Naeem Aziz Memon, Mohd Raihan Taha, Mohd Rosli Hainin. "An Expert System to Remedy Concrete Imperfections and Their Effects on Rigid Pavements", *Jurnal Teknologi* 76.14:108-119, 2015
 15. Sung-Ho Joh, **Norfarah Nadia Ismail**, Bukhari Ramli. "Two-Dimensional Imaging of Soil-Bedrock Interface by Short Array Beamforming Technique", *Soil Dynamic and Earthquake Engineering* 53: 37-48, 2013
 16. **Norfarah Nadia Ismail**, Sung-Ho Joh, Raja Hassanul Musa Raja Ahmad, "Beamforming Technique for Investigation of Lateral Variability at Geotechnical Sites", *Sains Malaysiana* 41(12): 1621-1627, 2012
 17. **Norfarah Nadia Ismail**. *Refinement of Beamforming Technique for Practical and Reliable Stiffness Profiling*. Master Thesis, Chung-Ang University, South Korea, 2012

I. CONFERENCE PROCEEDINGS

1. Nur Aina Farahana Abdul Ghani, **Norfarah Nadia Ismail**, Nur Izzi Md Yusoff, Nadiah Md Husain, Wan Nur Aifa Wan Azahar, Tengku Iman Arifah Tengku Ibrahim, "Non-destructive evaluation of rigid pavement using Spectral Analysis of Surface Waves (SASW) method", The 5th Symposium on Damage Mechanism in Materials and Structures (SDMMS), Virtual Symposium, Malaysia (8-9 March 2021)
2. **Norfarah Nadia Ismail**, Nur Izzi Md Yusoff, Wan Nur Aifa Wan Azahar, Ahmad Bukhari Ramli, Nadiah Md Husain, Norhidayu Kassim. 2019. Higher Modes and Superposed Mode Behavior for Flexible Pavement Layer System. *The 4th International Conference on Material Engineering and Application (4thICMEA)*, Kuala Lumpur, Malaysia (23-25 August 2019)
3. Wan Nur Aifa Wan Azahar, Ramadanshah Putra Jaya, Norhidayu Kasim, **Norfarah Nadia Ismail**, Nadiah Md Husain, Siti Asmahani Saad, Siti Aliyyah Masjuki, Saerahany Legori Ibrahim, Ahmad Bukhari Ramli, Nur Khairiyah Basri, "Investigation on Compatibility Property Between Aggregates and Bitumen Modified with Untreated and Treated Waste Cooking Oil" AWAM International Conference on Civil Engineering, 933-942, 2019.

4. Norhidayu Kasim, Kamarudin Abu Taib, NAA Ghazali, Wan Nur Aifa Wan Azahar, **Norfarah Nadia Ismail**, Nadiah Md Husain, Ahmad Bukhari Ramli, Siti Asmahani Saad, Siti Aliyyah Masjuki, Saerahany Legori Ibrahim, "Rainfall Intensity (I)-Duration(D) Induced Debris Flow Occurrences in Peninsular Malaysia" AWAM International Conference on Civil Engineering, 897-903, 2019.
5. Ahmad Bukhari Ramli, Norhidayu Kasim, **Norfarah Nadia Ismail**, Saerahany Legori Ibrahim, Nadiah Md Husain, Wan Nur Aifa Wan Azahar, "Determination of soil bearing capacity and profile using CAP-SASW method at western Malaysian Peninsular" AWAM International Conference on Civil Engineering, 855-867, 2019
6. Nadiah Md Husain, Wan Nur Aifa Wan Azahar, Norhidayu Kasim, **Norfarah Nadia Ismail**, Siti Asmahani Saad, Siti Aliyyah Masjuki, Saerahany Legori Ibrahim, Ahmad Bukhari Ramli, "Reusable concrete debris as aggregate replacement on the properties of green concrete" AWAM International Conference on Civil Engineering, 869-878, 2019
7. **Norfarah Nadia Ismail**, Nur Izzi Md. Yusoff, Khairul Anuar Mohd Nayan, Amiruddin Ismail, Norinah Abd Rahman, Muhammad Mubaraki. 2016. Evaluation of asphalt pavement at airport using seismic technique. *Proceeding of the Eighth International Conference on Maintenance and Rehabilitation of Pavements (MAIREPAV8)*, Singapore, (29-29 July 2016). Pg. 424-432.
8. **Norfarah Nadia Ismail**, Nur Izzi Md. Yusoff, Syuraizat Sabarudin, Khairul Anuar Mohd Nayan, Norinah Abd Rahman, Amiruddin Ismail. 2016. Study on the effects of receiver distance, height and mass of dropping steel balls on SASW test results. *The 10th International Conference on Geotechnical and Transportation Engineering (GEOTROPIKA)* Kuala Lumpur, Malaysia. (17-18 February 2016).
9. **Norfarah Nadia Ismail**, Sung-Ho Joh, Raja Hassanul Musa Raja Ahmad. 2012. Stiffness Profiling of Geotechnical Sites with a Soft Entrapped Layer by Beamforming Technique. *International Technical Conference*, Kuala Lumpur, Malaysia (Oct 2012).
10. **Norfarah Nadia Ismail** & Sung-Ho Joh. 2012. Utilization of Love Waves and Rayleigh Waves for Beamforming Technique to Evaluate Trackbed Stiffness. *2012 Spring Conference of the Korean Society for Railway*, Mokpo, South Korea (May 2012).