

CURRICULUM VITAE



A. **PERSONAL DETAILS**

1. Name : Dr. Nazirah Ab. Wahab
2. Date of Birth : 23-08-1986
3. Sex : Female
4. Office Address : Faculty of Civil Engineering, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia
5. Tel: : (6) 03-55436162 (office)
(6) 011-1329 9060(h/p)
6. E-mail : nazirahwahab@uitm.edu.my

B. **BRIEF PERSONAL HISTORY**

Nazirah Ab. Wahab received her Diploma, Bachelor's degree and Master of Science in Civil Engineering from Universiti Teknologi MARA (UiTM) in 2007, 2010 and 2013 respectively. She completed her PhD in Civil and Environmental Engineering from Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea in August 2019. Since 1 July 2020, she is working as a Senior Lecturer at the Faculty of Civil Engineering, Universiti Teknologi MARA (UiTM), Malaysia. Her research interest includes finite element method, fatigue crack prognosis, structural health monitoring, non-destructive testing, laser ultrasonic and nonlinear ultrasonic.

C. **ACADEMIC QUALIFICATION**

No.	Name of Institution	Degree/Qualification	Date awarded
1.	Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea	Ph.D (Civil and Environmental Engineering)	2019
2.	Universiti Teknologi Mara (UiTM), Shah Alam, Malaysia	MSc in Civil Engineering	2013
3.	Universiti Teknologi Mara (UiTM), Shah Alam, Malaysia	Bachelor of Engineering (Hons.) Civil	2010
4.	Universiti Teknologi Mara (UiTM), Arau, Malaysia	Diploma in Civil Engineering	2007

D. **WORKING EXPERIENCE**

1.	2020-Present	Senior lecturer, Faculty of Civil Engineering in Universiti Teknologi MARA (UiTM) - Teaching Mechanics of Solids to Bachelor Degree students
2.	2019-2020	Part Time Full Time Lecturer, Faculty of Civil Engineering in Universiti Teknologi MARA (UiTM) – Teaching Statics, Numerical Analysis and Finite Element Methods, Structures and Materials Laboratory and Mechanics of Solids to Bachelor Degree students
3.	2017	Teaching Assistant for subject Statistical Pattern Recognition for Structural Health Monitoring to Master and PhD students in Department of Civil and Environmental Engineering, KAIST, South Korea.
4.	2013-2014	Lecturer, Faculty of Civil Engineering in Universiti Teknologi MARA (UiTM) Pahang
5.	2010-2012	Tutor, Faculty of Civil Engineering in Universiti Teknologi MARA (UiTM) – Teaching Numerical Analysis and Finite Element Methods

E. **PROFESSIONAL QUALIFICATIONS**

1. Graduate Engineer, Board of Engineers Malaysia (BEM) - Since 2010
2. Graduate Member, The Institution of Engineers Malaysia (IEM) - Since 2010

F. **AREA OF RESEARCH**

Finite Element Method, Fatigue Crack Prognosis, Structural Health Monitoring, Non-destructive Testing, Laser Ultrasonic, Nonlinear Ultrasonic.

G. **PHD THESIS**

Fatigue crack prognosis based on combined nonlinear ultrasonic modulation measurement and numerical simulation (2019)

H. **PUBLICATION**

1. **Nazirah Ab Wahab**, Hyung Jin Lim, Yongtak Kim, Peipei Liu, Hoon Sohn, "Online fatigue crack prognosis based on combined nonlinear ultrasonic modulation measurement and numerical simulation," *submitted to Mechanical Systems and Signal Processing*, 2019.

2. Peipei Liu, **Nazirah Ab Wahab**, Hoon Sohn, "Numerical simulation for damage detection using laser-generated ultrasound," *Ultrasonics*, vol. 69, pp. 248-258, 2016.

I. **CONFERENCE PROCEEDINGS**

1. **Nazirah Ab. Wahab**, Peipei Liu, Hoon Sohn, "Finite element modeling of ultrasonic wave propagation induced by a pulse laser," *COSEIK*, Daejeon, Korea, April 13-15, 2016.
2. Peipei Liu, **Nazirah Ab. Wahab**, Hoon Sohn, "Numerical and experimental analyses of pulse laser generated ultrasound," *CANSMART 2015 & SMN 2015*, Vancouver, Canada, July 15-17, 2015.
3. **Nazirah Ab. Wahab**, Hanizah Ab. Hamid, Azmi Ibrahim, "Shear capacity of profiled web girders with intermediate rolled-in stiffeners," *IEEE BEIAC 2013*, Langkawi, Malaysia, April 7-9, 2013.