

## **CURCULUM VITAE**



### **A. PERSONAL DETAILS**

1. Name : Dr. Nazirah Binti Mohd Apandi
2. Date of Birth : 02-11-1993
3. Sex : Female
4. Office Address : School of Civil Engineering, College of Engineering, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia
5. Tel: : (6) 012-7480128 (h/p)
6. E-mail : [nazirahapandi@uitm.edu.my](mailto:nazirahapandi@uitm.edu.my)



<https://scholar.google.com.my/citations?user=3IOSS8IAAAJ&hl=en>

### **B. BRIEF PERSONAL HISTORY**

Dr. Nazirah Binti Mohd Apandi was born in Johor Bharu, Johor in 1993. She is currently a Senior Lecturer at the School of Civil Engineering, College of Engineering, Universiti Teknologi MARA under the Department of Structures and Materials. Her research interests cover several aspects of structural performance, mainly focusing on the Repaired Circular Reinforced Concrete Columns using Steel Strapping Tensioning Technique. She first enrolled in her foundation study at Johor Matriculation College. She received her first degree, Bachelor of Civil Engineering (Hons) from Universiti Teknologi Malaysia in 2016, and then she proceeded for her Ph.D. in Structure and Materials at Universiti Teknologi Malaysia in 2016 and graduated in 2020. She is a registered Civil Engineer in Malaysia.

**C. ACADEMIC QUALIFICATION**

<b>No.</b>	<b>Name of Institution</b>	<b>Degree/Qualification</b>	<b>Date awarded</b>
1.	Universiti Teknologi Malaysia, Malaysia	PhD in Structural Engineering	2020
2.	Universiti Teknologi Malaysia, Malaysia	Bachelor of Engineering (Hons.) Civil	2016
4.	Johor Matriculation College, Malaysia	Science Physical Matriculation Program	2012

**D. WORKING EXPERIENCE**

1.	2022-Present	Senior lecturer, School of Civil Engineering, College of Engineering in Universiti Teknologi MARA (UiTM) – (Structural and Materials Department)
2.	2020-2022	Post-Doctoral Fellowship (GEOTROPIKA, UTM)
3.	2019-2020	Research Assistant at School of Civil (UTM)
4.	2015	C&S Engineer at GJ Runding (Practical)
5.	2013	C&S Engineer at GJ Runding

**E. PROFESSIONAL QUALIFICATIONS**

Board of Engineer Malaysia (BEM) – 2016 - Present

## **F. AREA OF RESEARCH**

Repair of Concrete Structure; Damaged Concrete Column; High Strength Concrete; Finite Element; Real-Time Monitoring System for Peat Fire

## **G. PHD THESIS**

Structural Performance of Repaired Circular Reinforced Concrete Columns using Steel Strapping Tensioning Technique (2019)

## **H. RESEARCH GRANTS**

Alarming System for Peat Burning Problem – Prototype Development Fund (RM 20,000.00) 1/12/2020 - 30/11/2021

## **I. PUBLICATION**

No	Article Title	Journal Title	Vol	Issues	Publication year	IF	Type of Publication	Quartile Ranking	Category Author	Status
1.	Research Publications		-	-		-	Book Chapter		Co-Author	Draft 2
2.	Peat Soil: Fundamentals of Peat Soil						Book Chapter		Co-Author	Draft 1
3.	Construction of House: Planning to construction						Book Chapter		Co-Author	Draft 1
4.	Structural Behavior of Pre-Damaged RC Columns Immediate Repaired Employing Pre-Tensioned Steel Straps	Structure	-	-	2021	2.983	ISI Journal	Q2	Main-Author	Published
5.	Carbon Emissions from The Peat Fire Problem - A Review	Environment Science and Pollution Research	-	-	2021	3.095	ISI Journal	Q2	Co-Author	Published
6.	3D Finite Element Model for Steel Straps Confined Concrete in Compression using Modified CDPM	Construction and Building Materials	-	-	2021	-	ISI Journal	-	Co-Author	Under Review
7.	Preliminary Pre-Damaged Level Assessment for Concrete Structures	Structural Engineering	-	-	2021	-	ISI Journal	-	Main-Author	Under Review
8.	Stress-Strain Evaluation of High Strength Concrete In Pre-Damaged Cylinder Repaired Partially Confined With Steel Straps	Engineering Failure Analysis	-	-	2021	-	ISI Journal	-	Main-Author	Under Review
9.	A Review on Shaft Resistance of Bored Piles Socketed In Rock Formation	Journal of Mines and Fuel	-	-	2021	-	Scopus	Q4	Co-Author	Accepted

10.	New Insights for Subsurface Utility Mappings	Conference Proceedings	-	-	2021	-	Conference Proceedings	-	Co-Author	Accepted
11.	Paint Management in Waste Industry	Advanced Research in Business and Management Studies	20	1	2020	-	Scopus Journal	Scopus	Co-Author	Published
12.	Ductility and Stiffness of Slender Confined Reinforced High-Strength Concrete Columns under Monotonic Axial Load	Measurement	-	146	2019	3.364	ISI Journal	Q1	Co-Author	Published

No	Article Title	Journal Title	Vol	Issues	Publication year	IF	Type of Publication	Quartile Ranking	Category Author	Status
13.	A Review on Repair of Damaged Concrete Column Under Cyclic Loading by Using Confinement	International Conference on Architecture and Civil Engineering Conference	-	-	2019	-	Conference Proceedings	Scopus	Co-Author	Published
14.	Clean Strength, Leaching and Microstructure of Polymer Modified Concrete Incorporating Vinyl Acetate Effluents.	Malaysian Construction Research Journal (MCRJ)	6	1	2019	-	Scopus Journal	Scopus	Co-Author	Published
15.	The Effect of Pre-Damaged Level on Repair Damaged Columns by Using Steel Straps Tensioning Technique.	International Journal of Engineering & Technology	7	3.9	2018	-	Scopus Journal	Scopus	Main-Author	Published
16.	Modeling of high-strength concrete-filled FRP tube columns under cyclic load	AIP Conference Proceedings	195	8	2018	-	Conference Proceedings	Scopus	Co-Author	Published
17.	Repair and rehabilitation of concrete structures using confinement: A review	Construction and Building Materials	133	-	2017	4.419	ISI Journal	Q1	Co-Author	Published
18.	Discussion on "Repair and rehabilitation of concrete structures using confinement: A review	Construction and Building Materials	133	-	2017	4.419	ISI Journal	Q1	Co-Author	Published
19.	A review on bond and anchorage of confined high-strength concrete	Structure	11	-	2017	1.839	ISI Journal	Q3	Co-Author	Published
20.	Compressive strength models of repaired concrete structures	AIP Conference Proceedings	190	3	2017	-	Conference Proceedings	Scopus	Main-Author	Published
21.	Effects of Predamaged Level on Confined HSC Columns	MATEC Web of Conferences	103		2017	-	Conference Proceedings	Scopus	Co-Author	Published
22.	Innovative Concrete Repairing Technique using Post Tensioning Steel Straps	MATEC Web of Conferences	103		2017	-	Conference Proceedings	Scopus	Co-Author	Published

## J. CONSULTANCY

- Poultry Project (Kulai, Johor) – March 2022- Present
- Dam Design (Sabo Dam, Kedah) – September 2021- December 2021
- Wind Turbine (Design Support Structure at ICC UTM and Desaru) – December 2020 – December 2021
- Structural Design for Housing using ESTEEM Software (Client-Dr Ahmad Safuan)

**K. EXTRA CURRICULUM VITAE**

- Forensic Civil Engineering Seminar 2018 (ForCES'18) (Committee)- 10/2018
- Measurement of Uncertainty for Laboratory – 7/2018
- 9-Structured Courses (Proposal defence)-10/2017
- 9-Structured Courses (How to publish journal)-12/2017
- ABAQUS workshop- 11/2017
- 9-Structured Courses (Entrepreneurial Courses)-10/2017
- 9-Structured Courses (Career Path)-10/2017
- 9-Structured Courses (Effective Thesis Writing)-10/2017
- Interactive course: Non-Destructive Evaluation (NDE) for Building Assessment – 11/2016
- Workshop for Personality Traits for Business (Facilitator)- 4/2017
- UTM Community (Secretary) - 2014