



CURRICULUM VITAE

A. PERSONAL DETAILS

Name : Ir. Ts. Dr. Raden Maizatul Aimi Binti Mohd Azam
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 Current position : Senior Lecturer, UiTM Shah Alam, Selangor

 Google Scholar

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B. ACADEMIC QUALIFICATION

No.	Name of Institution	Degree/Qualification	Date awarded
1.	Universiti Teknologi MARA, Malaysia, Shah Alam, Selangor, Malaysia	PhD in Civil Engineering	2018
2.	Universiti Teknologi MARA, Malaysia, Shah Alam, Selangor, Malaysia	Master Degree in Engineering (Construction)	2011
3.	Universiti Teknologi MARA, Malaysia, Shah Alam, Selangor, Malaysia	Bachelor of Science in Civil Engineering	2009

C. WORKING EXPERIENCE / CURRENT POST

1.	2023 – Present	Senior Lecturer, School of Civil Engineering, College of Engineering in Universiti Teknologi MARA (UiTM)
2.	2018 – 2023	Civil Engineer at Civil & Structure Engineering Branch (CKAS), JKR Malaysia
3.	2017 – 2018	Lecturer, Faculty of Engineering and Built Environment, UCSI University Kuala Lumpur
4.	2012 – 2013	Graduate Research Assistant, Research Monitoring Centre (RMC), UiTM Shah Alam
5.	2011 – 2012	Relief Teacher at SMK USJ 13, Subang Jaya, Selangor

D. TEACHING / SUPERVISION EXPERIENCE

Courses & Codes	Course Level
Construction Technology (ECM446)	Undergraduate
Civil Engineering Appreciation & Innovation (ECM418)	Undergraduate
Geotechnical Materials & Analysis (EV304)	Undergraduate
Materials in Civil Engineering (EV214)	Undergraduate
Civil Lab II (EV216)	Undergraduate

No.	Title	Student	Year
Undergraduate			
1.	Investigate the changes in geotechnical properties of urban soil during carbonation	Low Li Ven	2018
2.	Thermogravimetric Analysis (TGA) of Mortar Containing Encapsulated <i>Geobacillus stearothermophilus</i> .	Mohd Hafrizam Bin Johari	2014
3.	Strength Characteristic of Mortar Containing Encapsulated <i>Geobacillus stearothermophilus</i> .	Muhammad Hazman Bin Mohd Zolkifli	2014
4.	Self-Healing Efficiency of Water and Air Cured Mortar Containing Encapsulated <i>Geobacillus stearothermophilus</i> .	Mohamad Fadhil Hadi Bin Yusof	2014
5.	Healing Efficiency of Mortar Containing Encapsulated <i>Geobacillus stearothermophilus</i> Cured in Calcium Lactate and Air.	Muhammad Naim Bin Abdul Halim,	2014
6.	Effect Of Encapsulated <i>Geobacillus stearothermophilus</i> Biomineralisation to Flexural Strength of Cement Mortar.	Muhammad Syamim Hilmi Bin Mohd Kamshah	2014
7.	Water Absorption Characteristic of Cement Mortar Containing <i>Geobacillus stearothermophilus</i> .	Nur Aqila Binti Halil	2014

E. PROFESSIONAL QUALIFICATIONS

1. Graduate Engineer, Board of Engineers Malaysia (BEM)
2. Graduate Member, The Institution of Engineers Malaysia (IEM)
3. Graduate Technologist, Malaysia Board of Technologists (MBOT)
4. Professional Technologist, Malaysia Board of Technologists (MBOT)
5. Member: Concrete Society of Malaysia (CSM)
6. Member: American Concrete Institute (ACI) KL Chapter

F. AREA OF RESEARCH

Material and Structural Engineering, Self-Healing Concrete, Bio-Concrete

G. PUBLICATION***Journals/ Articles***

1. **Raden Maizatul Aimi, M.A.**; Hamidah, M.S., Noorli, I. (2022). Bacterium Encapsulated in Alginate as A Self-Healing Agent in Autonomous Healing Mortar. IEM JURUTERA Monthly Bulletin, Number 03, March 2022, pg. 17-21
2. **Raden Maizatul Aimi, M.A.**; Noorli, I. (2021). Alginate Encapsulated Geobacillus stearothermophilus (AE-GS) as a Self-Healing Agent in Autonomous Healing Mortar. 3rd JKR Research Colloquium 2021 1, 29
3. **Raden Maizatul Aimi, M.A.**; Hamidah, M. S.; Kartini, K.; Hana, H. Noor; Khalilah, A. K.; Schlangen, E. (2021). Development of Autonomous-Healing Mortar Using Geobacillus stearothermophilus. ACI Materials Journal. Jan2021, Vol. 118 Issue 1, p3-11. 9p.
4. Ismail, N., Jomali, M. A. M., Bakar, H. A., Ghing, T. Y., Soh, N. M. Z. N., & **Azam, R. M. A. M.** (2020, January). Influence of varying density on the mechanical and physical properties of Medium Density Fibreboard (MDF) containing kenaf. In *IOP Conference Series: Materials Science and Engineering* (Vol. 713, No. 1, p. 012020). IOP Publishing.
5. **Raden Maizatul Aimi, M. A.**, Khalilah, A. K., Noor Hana, H., & Hamidah, M. S. (2016). Autogenous healing mortar made of alginate-encapsulated Geobacillus *stearothermophilus*. In M. Yusoff, A. N. H. Hamid, F. M. Arshad, K. A. Arshad, M. A. R. Ridzuan, & H. Awang (Eds.), *InCIEC 2015: Proceedings of the International Civil and Infrastructure Engineering Conference* (pp. 601–619). Singapore: Springer Singapore. doi: 10.1007/978-981-10-0155-0_51

6. **Raden Maizatul Aimi, M.A.**, Hamidah, M.S., Kartini, K., & Noor Hana, H. (2016). Enhancement of Thermophilic (*Geobacillus stearothermophilus*) Cement-Sand Mortar Properties. In A. N. Yacob, M. Mohamed, & K. M. A. Megat Hanafiah (Eds.), *Regional Conference on Science, Technology and Social Sciences (RCSTSS 2014): Science and Technology* (pp. 79 – 92). Singapore: Springer Singapore. doi: 10.1007/978-981-10-0534-3_8
7. **Raden Maizatul Aimi, M. A.**, Hamidah, M. S., Kartini, K., Khalilah, A. K., & Noor Hana, H. (2016). Alginate encapsulated *Geobacillus stearothermophilus* for application in self-healing concrete. In 13th International Conference on Concrete Engineering & Technology 2016 (CONCET 2016)
8. **Raden Maizatul Aimi, M. A.**, & Hamidah, M. S. (2012). Strength and water absorption characteristic of foamed geopolymer concrete. In INCIEC 2012: Proceedings of the International Civil and Infrastructure Engineering Conference, Putrajaya, Malaysia

Books/Thesis

1. **Raden Maizatul Aimi, M. A. (2017)**. "Enhancement Of Autonomous Healing Mortar Through Encapsulated Bacteria Biomineralisation". PhD in Civil Engineering, Universiti Teknologi MARA (UiTM).
2. **Raden Maizatul Aimi, M. A. (2011)**. "Strength and Water Absorption Characteristic of Foamed Geopolymer Concrete". MSc in Civil Engineering, Universiti Teknologi MARA (UiTM).
3. **Raden Maizatul Aimi, M. A. (2009)**. "Absorption characteristic of Ultra High Strength Concrete (UHSC) Exposed to Different Curing Regime". B.Eng (Hons.) (Civil), Universiti Teknologi MARA (UiTM).
4. **Raden Maizatul Aimi, M. A.**, Nor Azian, M. Y. & Mazira, M., **(2006)**. "*Perbandingan Kekuatan di Antara Konkrit Biasa dengan Konkrit Bahan Tambah*". Diploma Kejuruteraan Awam, Politeknik Sultan Azlan Shah (PSAS).

H. INNOVATION AND AWARDS

1. Sept 2022 Recipient of Anugerah Perkhidmatan Cemerlang (APC) Jabatan Kerja Raya (JKR) Malaysia for 2021
2. August 2021 Best Presenter Award in 3rd JKR Research Colloquium 2021

3. August 2021 2nd Best Research Paper Award in 3rd JKR Research Colloquium 2021
Title: Alginate Encapsulated Geobacillus stearothermophilus (AE-GS) as a Self-Healing Agent in Autonomous Healing Mortar
4. October 2019 Ikon Alumni Akademik, Majlis Makan Malam Apresiasi Graduan 2019, Dewan Seri Tanjung, Tanjung Malim, Perak
5. December 2016 Gold Medal - Higher Education Student (Innovation Category in Melaka International Intellectual Exposition (MIIEX 2016) by Assoc. Prof. Dr Mohd Adnan Hashim, UiTM Alor Gajah Campus, Melaka, Malaysia
6. June 2016 A recipient of Best Presenter for 13th International Conference on Concrete Engineering and Technology 2016 (CONCET 2016) by Assoc. Prof. Ir. Dr Kartini Kamaruddin, Shah Alam, Selangor, Malaysia
7. Sept 2011 Full scholarship for PhD postgraduate study, sponsored by MyBrain15, Ministry of Higher Education (MOHE)
8. 2007— 2008 Dean's List, Universiti Teknologi MARA (UiTM) Malaysia, for semester 7 and 8 during undergraduate study
9. Jan 2006 Recipient of Sijil Pingat Ketua Jabatan for CGPA > 3.50 for Diploma in Civil Engineering, Sultan Azlan Shah Polytechnic (PSAS), Malaysia
10. 2003— 2006 Dean's List, Sultan Azlan Shah Polytechnic (PSAS), Malaysia, for semester 1, 3, 4, 5 & 6