

CURRICULUM VITAE



A. **PERSONAL DETAILS**

1. Name : Dr Norliyati Mohd Amin
2. Date of Birth : 23-02-1975
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=blgqqEgAAAAJ&hl=en>



<http://prisma.uitm.edu.my/prisma/?doit=pubRec>

Scopus

<https://www.scopus.com/authid/detail.uri?authorId=57200341279>

B. **BRIEF PERSONAL HISTORY**

Norliyati Mohd Amin obtained her Bachelor's degree in Civil Engineering from Kyushu University Japan in 1999. In 2007, she received a Master's degree in Structural Engineering from Universiti Teknologi MARA Malaysia. She obtained a PhD in Structural Engineering from Kyushu University in 2011. She has been serving UiTM since January 2001 as a senior lecturer at the Faculty of Civil Engineering. Her research interest includes computational mechanics, Finite Element Method, modal analysis method and seismic engineering.

C. ACADEMIC QUALIFICATION

| No. | Name of Institution | Degree/Qualification | Date awarded |
|-----|-------------------------------------|---------------------------------------|--------------|
| 1. | Kyushu University, Japan | PhD in Civil & Structural Engineering | 2011 |
| 2. | Universiti Teknologi MARA, Malaysia | MSc in Civil Engineering (Structural) | 2007 |
| 3. | Kyushu University, Japan | Bachelor of Civil Engineering | 1999 |

D. WORKING EXPERIENCE

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|----|--------------|--|
| 1. | 2018-Present | Head of Structure and Material Division, Faculty of Civil Engineering in Universiti Teknologi MARA (UiTM) |
| | 2012-2017 | Research Fellow, Institute of Infrastructure Engineering and Sustainability Management(IIESM), Universiti Teknologi MARA(UiTM) |
| 3. | 2012-Present | Senior lecturer, Faculty of Civil Engineering in Universiti Teknologi MARA (UiTM) - Teaching structural engineering subjects such as numerical methods and finite element method, statics, reinforced concrete design to EC2 and supervising final year project students |
| 3. | 2001-2012 | Lecturer, Faculty of Civil Engineering in Universiti Teknologi MARA (UiTM) |

E. PROFESSIONAL QUALIFICATIONS

1. Graduate Engineer, Board of Engineers Malaysia (BEM) - Since 2001
2. Graduate Member, The Institution of Engineers Malaysia (IEM) - Since 2001

F. AREA OF RESEARCH

Finite element method, modal analysis, seismic engineering, computational mechanics

G. PHD THESIS

Development of Fast Dynamic FEM Tool Using Model Order Reduction for Rational Design of Seismic Isolated Bridge (2011)

H. **RESEARCH GRANTS**

1. UiTM-Dana Kecemerlangan: Structure Health Monitoring Using Fracture for High Strength Concrete Beam (Co-Researcher), RM32,000 (2012-2014)
2. UiTM-Dana Kecemerlangan: Innovative low cost recycled rubber bearing for structure earthquake mitigation(Principal Researcher), RM32,000 (2012-2014)
3. ERGS: Fast Non-linear Dynamic FEM software for the rational design of seismic isolated bridge (Principle Researcher), RM50,000 (2012-2015)
4. MTIB: PROGRAM PEMBANGUNAN PRODUK KEJURUTERAAN KAYU (ETP) SEBAGAI STRUKTUR DI DALAM SEKTOR PEMBINAAN(Co-Researcher), RM3,500 (2014-2015)
5. UiTM-RAGS: HEAT TREATEDHARDWOOD TIMBERS CHEMICAL AND CHARACTERIZATION (Co-Researcher), RM75,000 (2012-2015)
6. UiTM-RAGS: TENSILE RESISTANCE COMPOSITE TIMBER CONNECTION EUROPEAN YIELD MODEL(Co-Researcher), RM80,000 (2012-2015)
7. UiTM-RAGS : LATERAL RESISTANCE TIMBER JOINTS THEORETICAL MODIFICATION AND MONTECARLO SIMULATION(Co-Researcher), RM65,000 (2013-2015)
8. UiTM-RAGS: EARTHQUAKE RESPONSE OF MULTI-PANEL WALL USING VIRTUAL WORK PRINCIPLE(Co-Researcher), RM80,000, (2014-2017)
9. MTIB: PROGRAM PEMBANGUNAN PRODUK KEJURUTERAAN KAYU (ETP) SEBAGAI STRUKTUR DI DALAM PEMBINAAN(Co-Researcher), RM 5,000,000 (2014-2017)
- 10.KTP: TRANSFERING SUSTAINABLE SCIENCE AND TECHNOLOGY KNOWLEDGE FOR FOSTERING INNOVATION IN RURAL AREA SCHOOL (Co- Researcher), RM 154,160 (2015-2017)
- 11.FRGS-KPT: PARTICLE BONDING THEORY OF LIQUID SLUDGE THROUGH ELECTROSTATIC INTERACTION BY WASTE PAPER SLUDGE ASH(WPSA)(Principle Researcher), RM 98,000 (2016-2018)
- 12.GIP-UiTM: EFFECTS OF ORGANIC COATING AS ANODE FOR IMPRESSED CURRENT CATHODIC PROTECTION IN REPAIRING RC STRUCTURES (Principle Researcher), RM25,000 (2017-2018)
- 13.BESTARI-UiTM: THE EFFECTIVENESS OF WATER TANKS POSITIONS AS MULTIPLE TUNED LIQUID DAMPER(Co-Researcher), RM30,000 (2018-2019)
- 14.FRGS-KPT: FORMULATION OF SOIL STRUCTURE INTERACTION OF PRESTRESSED CONCRETE SLEEPER (SSI-PCS)(Co-Researcher), RM95,082 (2017-2019)
- 15.FRGS-KPT: SERVICEABILITY PREDICTIVE MODEL OF VIBRATING ULTRA-HIGH PERFORMANCE CONCRETE STRUCTURE, RM88,500 (2019-2020)
- 16.MREPC ILF: Seismic Response of Base-Isolated Low-Rise RC Buildings under In-Plane Lateral Cyclic Loading(Co Researcher), RM213,400 (2019-2021)

I. PUBLICATION

1. **NM Amin**, SNF Maskor, I Joohari, A Jamadin Geometry Strength of Honeycomb Sandwich Panel, International Journal of Integrated Engineering: Special Issue 2018:Innovations in Civil Engineering, Vol. 10 No. 9 (2018) p. 164-171-SCOPUS
2. Ahmad Idzwan Yusuf, **Norliyati Mohd Amin**, Mohd Azmi Yunus, Muhamad Norhisham Abdul Rani, Evaluation of Rayleigh Damping Coefficients for Laminated Rubber Bearing Components Using Finite Element and Experimental Modal Analysis, International Journal of Integrated Engineering: Special Issue 2018:Innovations in Civil Engineering, Vol. 10 No. 9 (2018) p. 17-22-SCOPUS
3. Nurul Huda Suliman, Amir Atif Abdul Razak, Hazrina Mansor, Anizahyati Alisibramulisi, **Norliyati Mohd Amin**, Concrete using sawdust as partial replacement of sand : Is it strong and does not endanger health?, MATEC Web of Conferences Vol.258, pp 01015-SCOPUS
4. **N.M. Amin**, A. I. Yusuf and N.A. Yahya, Determination of Non Proportional damping coefficient for Laminated Rubber Bearing Bridge, International Journal of Civil Engineering and Technology, 9(7), pp. 1546–1556.(2018)-SCOPUS
5. **N.M. Amin**, W.N.A.W. Sulaiman, Adiza Jamadin and A. Alisibramulisi, Seismic Response Analysis of 3d Finite Element Bridge Model Using Time History Loading, International Journal of Civil Engineering and Technology, 9(7), pp. 430–436 (2018)-SCOPUS
6. I Joohari, NF Ishak, **NM Amin** Mechanical Properties of Lightweight Concrete Using Recycled Cement-Sand Brick as Coarse Aggregates Replacement, E3S Web of Conferences 34, 01029 (2018)-SCOPUS
7. A Mojiri, RM Tajuddin, Z Ahmad, L Ziyang, HA Aziz, **NM Amin**, Chromium (VI) and cadmium removal from aqueous solutions using the BAZLSC/cockle shell constructed wetland system: optimization with RSM, International Journal of Environmental Science and Technology, 1-8 (2017)- SCOPUS
8. Ilya Binti Joohari and **Norliyati Binti Mohd Amin**, Development of Flat Slab – Column Interaction with Different Thickness, MATEC Web of Conferences 97, 01038 (2017)-SCOPUS
9. M. A. Fadzil, M. A. **Norliyati**, M. A. Hilmi, A. R. Ridzuan, M. H. Wan Ibrahim and R. Z. Assrul, Energy Consumption of Insulated Material Using Thermal Effect Analysis, MATEC Web of Conferences 103, 08017 (2017)-SCOPUS
10. M. A. Fadzil, M. S. Muhd Nurhasri, **M. A. Norliyati**, M. S. Hamidah, M. H. Wan Ibrahim and R. Z. Assrul, Characterization of Kaolin as Nano

Material for High Quality Construction, MATEC Web of Conferences
103, 09019 (2017)-SCOPUS

11. **Amin, N.M.**, Kadir, N., Jamadin, A. Condition rating system of bridges in Malaysia: A case study, *Journal of Engineering and Applied Sciences Open Access*, Volume 12, Issue 4, Pages 787-791 (2017)-SCOPUS
12. **Amin, N.M.**, Aziz, N.A., Joohari, I., Alisibramulisi, A. Retrofitting performance of reinforced concrete one way slab, *Jurnal Teknologi* Volume 78, Issue 5-3, Pages 41-45 (2016)-SCOPUS
13. Yusuf, A.I., **Amin, N.M.**, Yunus, M.A., Rani, M.N.A. Dynamic properties of elastomeric bearing via finite element and experimental modal analysis, *Malaysian Construction Research Journal*, Volume 19, Issue 2, Pages 39-48 (2016)-SCOPUS
14. Yusuf, A.I., **Norliyati, M.A.**, Yunus, M.A., Abdul Rani, M.N.A. Investigation of dynamic properties of elastomeric bearing components via modal analysis, *Jurnal Teknologi* Volume 76, Issue 8, Pages 17-21 (2015)-SCOPUS
15. Musa, M.Y., Hamzah, S.H., **Amin, N.M.** Modeling of steel fibres as flexural cracks inhibitor in reinforced concrete beam, *Jurnal Teknologi* Volume 76, Issue 8, , Pages 53-57 (2015)-SCOPUS
16. NH binti Suliman, SH binti Hamzah, NM Amin Bending Strength of Pre-tensioned (PRT) Concrete Beam, *InCIEC 2014*, Springer, Singapore, pp 605-612(2015)
17. AI Yusuf, **NM Amin**, Determination of Rayleigh Damping Coefficient for Natural Damping Rubber Plate Using Finite Element Modal Analysis, *InCIEC 2014*, Springer, Singapore, pp 713-725 (2015)
18. LM Najib, A Alisibramulisi, **NM Amin**, IAA Bakar, S Hasim, The Effect of Rolling Direction to the Tensile Properties of AA5083 Specimen *InCIEC 2014*, 779-787 (2015)
19. **Amin, N.M.**, Asai, M., Sonoda, Y. Application of a model order reduction method based on the Krylov subspace to finite element transient analysis imposing several kinds of boundary condition, *IOP Conference Series: Materials Science and Engineering*, Volume 10, Issue 1, Article number 012118 (2014)-SCOPUS
20. HI Amaruddin, R Hassan, **NM Amin**, NJA Malek, Finite element model of mortise and tenon joint fastened with wood dowel using kempas species, *InCIEC 2013*, Springer, Singapore, pp 3-14 (2014)
21. WNAW Sulaiman, **NM Amin** Seismic Performance of Laminated Rubber Bearing Bridges Subjected to High Intensity Earthquake Time-History Loading, *InCIEC 2013*, Springer, Singapore, pp 177-190 (2014)

22. **NM Amin**, A Alisibramulisi, N Kadir Compressive Strength of Laminated Rubber Bearing Due to Different Temperature Exposure, InCIEC 2013, Springer, Singapore, pp 701-711 (2014)
23. **Mohd, A.N.**, Krisnamoorthy, R.R. Krylov Subspace model order reduction for FE seismic analysis, ISBEIA 2012 - IEEE Symposium on Business, Engineering and Industrial Applications, Article number 6422877, Pages 239-243 (2012)-IEEE
24. Asai, M., **Amin, N.M.**, Sonoda, Y. Practical determination of an effective reduced order in model order reduction of dynamic fem via krylov subspace Journal of Applied Mechanics, 14, p. I85I93. (2011)
25. **NM Amin**, M Asai, Y Sonoda Fast transient structural FE analysis imposing prescribed displacement condition by using a model order reduction method via Krylov subspace, Journal of Applied Mechanics 13, 159-167 (2010)

J. CONSULTANCY

1. Client : Malaysian Timber Council
Year : 2013
Work Scope : SPAN TABLE FOR GLULAM
Project Value: RM 71,080
2. Client : IDEAL ENGINEERING LABORATORY SDN BHD
Year : 2015
Work Scope : GEOTECHNICAL SITE INVESTIGATION FOR DETAIL DESIGN FOR TEKAI HYDROELECTRIC PROJECT - PHASE 3
Project Value: RM14,880
3. Client : AIR KELANTAN SDN BHD
Year : 2015
Work Scope : KAJIAN MENGGUNAKAN KAEDAH ELECTRICITY RESISTIVITY IMAGING BAGI AIR BAWAH TANAH DI LRA PINTU GENG, KOTA BHARU , KELANTAN
Project Value: RM7,500

K. SUPERVISION OF POSTGRADUATE STUDENTS

MOHD YUASRIZAM BIN MUSA(201117763)- GRADUATED
Steel Fibres As Flexural Cracks Inhibitor in Reinforced Concrete Beams

AHMAD IDZWAN BIN YUSUF(2013614178)-GRADUATED
Damping Properties of Bridges Structure Component using Finite Element and Experimental Modal Analysis

NUR INSYIRAH MOHD NADZRI (2015992799)
Analysis of Steel Corrosion in RC Structure by Using Cathodic Protection

IZZUL SYAZWAN ISHAK (2015793219)

Investigation on Potential Usage of water Tank as a Passive Tune Liquid Dampers

WAN NOR NASUHA MOHAMMAD (2015389335)

Performance of Splice Bonded Steel Dowelled Mengkulang Glulam Connection at Selected Angle

ILI FARHANA AZMI (2016832094)

Based Isolation System for hybrid RC Frame to Resist Seismic Load

NAJIA KARIMI(2016209124)

Validation of Experimental and Modelling of Single Storey Tunnel Form Building Under Earthquake Loads

MOHD AKMAL FAZLAN ROZLI (2016426158)

Variable Harmonic Function Formulation of Railway Sleepers Subjected to Various Types of Trains

SHARUL NIZAM ILIAS (2013567209)

Numerical modelling for PSC sleepers under cyclic loads

AHMAD IDZWAN YUSUF (2017601486)

Analysis of Structural Bearing Using Modal Analysis

NORFARHANA DIYANA ABD HADI (2013845868)

Seismic Performance of Beam Column Joint with Fuse Bar under Lateral Cyclic Loading

L. PANEL EXAMINERS, ASSESSORS AND REVIEWERS

Panel of Examiner MSc in Civil Engineering(Research), UiTM, Malaysia for Sharifah Hanisah on 2018

Panel of Examiner PhD in Civil Engineering(Research), UiTM, Malaysia for Norshariza Mohamad Bhkari on 2018

External Panel of Examiner PhD in Civil Engineering(Research), Sathyabama Institute of Science and Technology, India for A. Annadurai (2012802454) on Mac 2018

Panel of Examiner Msc in Civil Engineering(Research), UiTM, Malaysia for Roslin Ramli (2012802454) on 8 Disember 2016

Panel of Examiner MSc in Civil Engineering(Reasearch), UiTM, Malaysia for Hisham Saari(2009450048) on 31 Mac 2016

M. ACHIEVEMENTS (PERSONAL)

Silver Medal in ITEX 2017 for "Hybrid Wall Panel"

Gold Medal in Malaysia Technology Expo 2017 for "EquakeWPS Wall Panel"

Gold Award in Invention, Innovation & Design Exposition(IIDEX 2016) for "OHME-LAB"

Silver Award in Invention, Innovation & Design Exposition(IIDEX 2016) for "Measurement of Dynamic Properties Tool for Bridge Earthquake Design"

Gold Award UTM Bridge Competition 2015 (advisor)

1st in Overall Categories UTM Bridge Competition 2015 (advisor)

UiTM Excellent Service Award, 2012

Silver Award in Research, Invention, Innovation & Design 2012 for "Development of Fast Structural Dynamic FE Analysis Using Krylov Subspace Model Order Reduction(KS-MOR)"

Silver Award in Research, Invention, Innovation & Design 2012 for "Concrete Canoe Boat"