

## CURCULUM VITAE



### A. **PERSONAL DETAILS**

1. Name : Dr. Hj. Norshariza binti  
Mohamad Bhkari
2. Date of Birth : 15-07-1978
3. Sex : Female
4. Office Address : Institute for Infrastructure Engineering and  
Sustainable Management (IIESM), Universiti  
Teknologi MARA, 40450 Shah Alam, Selangor,  
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<https://scholar.google.com/citations?user=yI4dnuIAAAAJ&hl=en>



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

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

Norshariza Mohamad Bhkari obtained her diploma and Bachelor's degree in Civil Engineering from Universiti Teknologi MARA (UiTM), Malaysia in 1999 and 2001 respectively. In 2005, she received a Master's degree in Civil-Structure from Universiti Teknologi Malaysia (UTM). She obtained a PhD in Civil Engineering from Universiti Teknologi MARA in year 2018. She has been serving UiTM since May 2005 at the Faculty of Civil Engineering. Her research interest includes material and structural timber engineering.

C. **ACADEMIC QUALIFICATION**

No.	Name of Institution	Degree/Qualification	Date awarded
1.	Universiti Teknologi MARA, Malaysia	PhD in Civil Engineering	2018
2.	Universiti Teknologi Malaysia	M.Eng in Civil-Structure	2005
3.	Universiti Teknologi MARA, Malaysia	Bachelor of Engineering (Hons.) Civil	2001
4.	Universiti Teknologi MARA, Malaysia	Diploma in Civil Engineering	1999

D. **WORKING EXPERIENCE**

1.	2019	Senior Lecturer, Faculty of Civil Engineering, Universiti Teknologi MARA Malaysia  Principal Researcher Institute for Infrastructure Engineering and Sustainable Management (IIESM), Universiti Teknologi MARA Malaysia
2.	2011-2019	Senior Lecturer, Faculty of Civil Engineering, Universiti Teknologi MARA Pahang
3.	2005 - 2011	Lecturer, Faculty of Civil Engineering, Universiti Teknologi MARA Pahang
4.	2002-2004	Lecturer (Contract), Faculty of Civil Engineering, Universiti Teknologi MARA Sabah
5.	2002	Structural Engineer, Perwira Al-Shura Consulting Engineers (PACE) Sdn. Bhd.

E. **PROFESSIONAL QUALIFICATIONS**

Graduate Engineer, Board of Engineers Malaysia (BEM) - Since 2001

F. **AREA OF RESEARCH**

Material and Structural Timber Engineering

## G. **PHD THESIS**

Flexural Static and Fatigue Performance of Glued Laminated Timber Railway Sleepers from Selected Malaysian Tropical Heavy Hardwood (2018)

## H. **RESEARCH GRANTS**

1. BESTARI: A Novel Classifier for Tropical and Plantation Hardwood Timber Grading using Hybrid Ant Colony Optimization and Artificial Bee Colony (Member) RM25,000 (2018-2019).
2. ScienceFund: Fatigue Performance of Glued Laminated Timber Railway Sleepers using Selected Malaysian Tropical Hardwood (Member) RM245,500 (2015-2017).
3. RAGS: Bond Durability Characterization of Chromated Copper Arsenate (CCA) Preservative Treated Glued Laminated Timber RM80,000 (Member) (2014-2017).
4. FRGS: Kenaf Articulate Reinforced Polyethylene Composites Moisture Diffusion Model (Member) RM105,000 (2011-2013).

## I. **PUBLICATION**

1. Wan Mohamad, W.H., **Norshariza, M.B.** & Ahmad, Z. (2019). Bending and bonding properties of mixed species glulam beams made using Merpauh, Jelutong and Sesendok. *Jurnal Teknologi* 81:4, pp. 165–170 (Scopus, Q2).
2. Nur Asmaliza Mohd Noor, Asmidar Alias, Kamisah Ariffin, **Norshariza Mohamad Bhkari** & Anis Hasliza Abu Hashim. (2019). Employing the problem-based learning approach in Civil Engineering education: An experience in the Highway Engineering Subject. Proceeding of the Second International Conference on the Future of ASEAN (ICoFA 2017-Volume 1). Springer, pp. 519-528.
3. **Norshariza, M.B.**, Ahmad, Z., Abu Bakar, A., & Md. Tahir, P. (2018). Performance study of laboratory and in-service Kekatong glued laminated timber railway sleepers. Proceeding of World Conference in Timber Engineering 2018. Korea (Scopus).
4. **Norshariza, M.B.**, Wan Mohamad, W.H. & Ahmad, Z. (2017). Flexural behaviour of glued laminated timber beam from various species of Malaysian Tropical Hardwood. *Malaysian Construction Research Journal* (Under Review).

5. Zarina Zainul Rashid, **Norshariza Mohamad Bhkari**, Norhafizah Rosman (2017). Proses Jaminan Kualiti (CQI) Pengajaran dan Pembelajaran di UiTM Cawangan Pahang: Satu Analisa. *Prosiding Konferensi Akademik (KONAKA 2017)*.
6. Nor Maslina Mohsan, Nurul Farraheeda Abd Rahman & **Norshariza Mohamad Bhkari**. (2017). Designing the Higher Level of Assessment for Structural Analysis Laboratory (ECS258) based on the Open-Ended Laboratory (OEL) Approach. *Prosiding Konferensi Akademik (KONAKA 2017)*.
7. **Mohamad Bhkari, N.**, Ahmad, Z., Abu Bakar, A., & Md. Tahir, P. (2016). Assessment in bending and shear strength of glued laminated timber using selected malaysian tropical hardwood as alternative to timber railway sleepers. *Jurnal Teknologi* , 78:5-5 (2016) 111-117 (Scopus)
8. **Norshariza, M. B.**, Ahmad, Z., Abu-Bakar, A., & Tahir, P. (2016). Post-fatigue behaviour of Kekatong glued laminated timber railway sleepers. In H. Yusoff, M., Hamid, N.H.A., Arshad, M.F., Arshad, A.K., Ridzua, A.R.M., Awang (Ed.), *Proceedings of the International Civil and Infrastructure Engineering Conference (InCIEC 2015)* (pp. 819-832). Singapore: Springer.
9. Reza Andasht Kazeroon, Ahmad, Z. & **Norshariza, M. B.** (2016). The Effect of Span on the Bending Strength Properties of Glued Laminated Timber Beam. In H. Yusoff, M., Hamid, N.H.A., Arshad, M.F., Arshad, A.K., Ridzua, A.R.M., Awang (Ed.), *Proceedings of the International Civil and Infrastructure Engineering Conference (InCIEC 2015)* (pp. 819-832). Singapore: Springer.
10. Asmidar Alias, Nur Asmaliza Mohd Noor, **Norshariza Mohamad Bhkari** & Kamisah Ariffin (2016). Learning and enhancing soft skills through co-operative learning. *Business Management and Computing Research Colloquium (BMCRC)* (pp.62-65). UiTM Pahang.
11. Nor Maslina Mohsan, Rohaya Alias, Normadiana Mohammad Hnapi, Farah Wahida Mohd Latib, Mohd Mawardi Mohd Kamal & **Norshariza Mohamad Bhkari** (2016). Implikasi kesihatan ke atas penyelidik wanita dalam melakukan kerja-kerja makmal berat: Satu perspektif. *Proceeding of the Konferensi Akademik 2016*. UiTM Pahang.
12. Asmidar Alias, Nur Asmaliza Mohd Noor, Kamisah Ariffin & **Norshariza Mohamad Bhkari** (2016). Student Learning Time: A needs analysis for University students' time management skills. *Proceeding of the Regional Conference on Science Technology & Social Sciences (RCSTSS) 2016*. UiTM Pahang. In Press.
13. **Norshariza, M. B.**, Ahmad, Z., Abu-Bakar, A., & Tahir, P. (2014). Structural behaviour of Kekatong glued laminated timber railway sleepers under "Sleepers static performance test ." In J. C. M. Kao, W.-P. Sung, & R. Chen (Eds.), *The 4th International Conference on Green Building, Materials and Civil Engineering (GBMCE) 2014* (pp. 45-49). Hong Kong: Taylor& Francis Group London (Scopus).
14. **Norshariza, M. B.**, Ahmad, Z., Abu-Bakar, A., & Tahir, P. (2013). Ultimate Strength of Kekatong Glued Laminated Timber Railway Sleepers. In R. Hassan, M. Yusoff, Z. Ismail, N. Mohd Amin, & F. Mohd

Arshad (Eds.), *The International Civil and Infrastructure Engineering Conference 2013* (pp. 97–105). Springer.

15. Asmidar Alias Nur Asmaliza Mohd. Nor Farah Wahida Mohd. Latib & **Norshariza Mohamad Bhkari** (2012). Project Based Learning (PjBL): Associating Comprehensive Learning and Skills Development in Civil Engineering. *Proceeding of The Asian Conference on Education 2012* (pp. 752-764). Japan: The International Academic Forum (IAFOR).
16. Asmidar Alias, Kamisah Ariffin, **Norshariza Mohamad Bhkari** & Azniza Ahmad Zaini (2011). Aligning assessment to course outcomes in OBE: Comparing the application of Bloom's Taxonomy in final examination papers in UiTM. *Proceeding of the KONAKA 2011* (pp.152-158). UiTM Pahang.
17. **Norshariza Mohamad Bhkari** & Asmidar Alias (2010). UiTM Civil Engineering Graduating Students' Assessment Based on EAC Criteria: UiTM Pahang Case Study *Proceeding of Regional STSS 2010* (pp.867-872). UiTM Pahang.
18. Mohd Ikhsan Md Raus, Norhafizah Hashim, Muhd Eizan Shafiq Abd Aziz, Asmidar Alias, **Norshariza Mohamad Bhkari** & Kamisah Ariffin (2010) ProASys : An electronic solution for Programme Outcomes Assessment. *Proceeding of Regional STSS 2010* (pp.599-604). UiTM Pahang.
19. Nor Malina Mohsan, Khalimi Johan Abd Hamid, **Norshariza Mohamad Bhkari** & Asmidar Alias (2010). The engineering properties, shrinkage and creep behaviour of normal strength concrete. *Proceeding of Regional STSS 2010* (pp.545-550). UiTM Pahang.
20. **Norshariza Mohamad Bhkari** & Asmidar Alias (2010). Implementation of design log for Project-Based Learning. *Monograph Series of COMPASS, Vol.2, No.2, Teaching and Learning Practices*. UPENA.
21. Zadariana Jamil, Rohaya Alias, **Norshariza Mohamad Bhkari** et. al. (2010). A diagnostic programme for student improvement: SIMPLE implementation in Faculty of Civil Engineering. *Proceeding of Konferensi Akademik (KONAKA) 2010* (pp. 125-136). UiTM Pahang.
22. Asmidar Alias, **Norshariza Mohamad Bhkari**, Mohd Ikhsan Md Raus, Muhd Eizan Shafiq Abd Aziz, & Kamisah Ariffin (2010). ProDIMAS: Programme Outcomes Data Integration, Management and Analysis in OBE implementation. *Proceeding of Konferensi Akademik (KONAKA) 2010* (pp.193-201). UiTM Pahang.
23. Asmidar Alias, **Norshariza Mohamad Bhkari**, Mohd Razmi Zainuddin & Ahmad Amzari Yaacob (2009). Community Service and CESS: Towards Students Personal Development. *Monograph Series of COMPASS, Vol.1, No.3, Community Services* (pp. 13-18). UPENA.
24. Asmidar Alias, **Norshariza Mohamad Bhkari**, Nor Malina Mohsan & Kamisah Ariffin (2009). Complementing Outcome-Based Education: The Implementation of Student Learning Time. *Monograph Series of COMPASS, Vol.1, No.2, Teaching and Learning Practices* (pp. 8-13). UPENA.

25. Kamisah Ariffin, Asmidar Alias, **Norshariza Mohamad Bhkari** & Khairi Khalid. (2009). Implementing Outcome-Based Education: Are We Ready and Willing? *Monograph Series of COMPASS, Vol.1, No.1, Research and Innovation* (pp. 43-48). UPENA.
26. Kamisah Ariffin, Asmidar Alias & **Norshariza Mohamad Bhkari** (2009). Tahap dan Keperluan Kompetensi dalam Bidang Penyelidikan dan Penulisan di kalangan Pensyarah. *Proceeding of Konferensi Akademik (KONAKA) 2009* (pp.11-20). UiTM Pahang.
27. Asmidar Alias, Norhafizah Hashim, Mohd Ikhsan Mohd Raus, **Norshariza Mohamad Bhkari** & Kamisah Ariffin (2009). Programme Outcomes Assessment in OBE Implementation: On-line Evaluation System. *Proceeding of Konferensi Akademik (KONAKA) 2009* (pp. 377-384). UiTM Pahang.
28. Asmidar Alias, **Norshariza Mohamad Bhkari**, Kamisah Ariffin & Khairi Khalid (2008). Outcome-Based Education (OBE): Pelan Strategik UiTM Pahang. *Proceeding of Konferensi Akademik (KONAKA) 2008* (pp. 109-118). UiTM Pahang.
29. **Norshariza Mohamad Bhkari**, Asmidar Alias & Mohd Syahrul Hisyam Mohd Sani (2008). Civil Engineering Graduating Students' Assessment based on EAC Criteria: UiTM Case Study. *Proceeding National STSS 2008* (pp. 839-844). UiTM Pahang.
30. Asmidar Alias & **Norshariza Mohamad Bhkari** (2008). The Shift Culture in Engineering Education: Are We Ready? *Proceeding of Kolokium 2007-2008* (pp. 23-32). UiTM Pahang.
31. Asmidar Alias & **Norshariza Mohamad Bhkari** (2007). Model of Outcome-Based Education (OBE) for Engineering Education. *Jurnal Gading, 11(2)*. UPENA 2007
32. **Norshariza Mohamad Bhkari**, Azlan Abdul Rahman & Baderul Hisham Ahmad (2006). Modal Analysis of Concrete Bridge Deck subjected to Free Vibration. *Jurnal Gading, 11 (2)*. UPENA.
33. **Norshariza Mohamad Bhkari**, Azlan Abdul Rahman & Baderul Hisham Ahmad (2005). Modal Analysis of Concrete Bridge Decks Subjected to Free Vibration: A Research Prospect. *Proceeding of Konferensi Akademik (KONAKA) 2005*. UiTM Pahang.

## J. CONSULTANCY

1. Client : Tong Sim Wood Industries Sdn. Bhd  
Year : July 2019  
Work Scope : Bending of Southern Yellow Pine-  
Creosote Timber Railway Sleepers  
Project Cost : RM 11 000.00

2. Client : Hikmat Asia Sdn. Bhd.  
Year : Oct. 2018  
Work Scope : Bending and Compression Strength of Siberian Larch  
Creosote Timber Railway Sleepers  
Project Cost : RM 12 000.00
3. Client : Lembaga Perindustrian Kayu Malaysia (MTIB)  
Year : Nov.2017 – Oct. 2019  
Work Scope : Kajian Perolehan Data Teknikal Cross Laminated  
Timber (CLT) untuk Lembaga Perindustrian Kayu  
Malaysia (MTIB).  
Project Cost : RM 1 798 848.00
4. Client : Woodsfield Timber Industry Sdn. Bhd.  
Year : 1 Aug. 2015 – 1 Oct.2015  
Work Scope : Testing Treated Pine Sleepers  
Project Cost : RM 8 300.00
5. Client : Woodsfield Timber Industry Sdn. Bhd.  
Year : 6 July 2015 – 30 Sept 2015  
Work Scope : Pine Glulam Railway Sleepers  
Project Cost : RM 12 300.00
6. Client : Woodsfield Timber Industry Sdn. Bhd.  
Year : 15 Jan. 2013 – 30 Apr. 2014  
Work Scope : Glue Laminated Timber  
Project Cost : RM 10 000.00
7. Client : Building and Structural Research Institute of Malaysia  
(BASRIM) Sdn. Bhd.  
Year : 29 December 2010  
Work Scope : Consultation on Seminar: The Role of Developer,  
Contractor, Consultant in Construction Project: Legal  
Perspective

Project Cost : RM 1 500.00

8. Client : Lembaga Pembangunan Industri Pembinaan (CIDB),  
Malaysia  
Year : June 2010  
Work Scope : Program Latihan Kontraktor: Kursus Pengurusan  
Bisnes Kontraktor  
Project Cost : RM 1 250.00
  
9. Client : Tuaimas Maju Enterprise  
Year : April 2010  
Work Scope : Consultation on Pengurusan Projek (PMC) Bagi  
Pembinaan 5 Unit Bangunan Setingkat di Lot  
PT1495, Mukim Burau,  
Jerantut, Pahang  
Project Cost : RM 3 000.00
  
10. Client : En Saharani bin Abd Rashid  
Year : February 2009  
Work Scope : Consultation on Pengurusan Projek (PMC) Bagi  
Pembinaan Bangunan Tambahan dan Ubahsuaian  
Rumah Setingkat  
Project Cost : RM 1 000.00

K. **AWARDS AND RECOGNITION**

1. **Grand Awards** for product **Engineered Glulam Timber Sleeper from Tropical Heavy Hardwood** at Anugerah Inovasi Negeri Selangor Tahun 2018, 12-15 November 2018. National Level. Organised by Kerajaan Negeri Selangor.
  
2. **Grand Award** for product **Glued Laminated Timber Railway Sleepers from Malaysian Tropical Heavy Hardwood** at Persidangan dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa 2017 (PECIPTA 2017), Stadium Tertutup Kompleks Sukan Negeri, Gong Badak, Kuala Nerus, Terengganu, 7-9 October 2017. Internatioal Level.Organised by Ministry of Higher Education, Malaysia.
  
3. **Gold Award** for product **Glued Laminated Timber Railway Sleepers from Malaysian Tropical Heavy Hardwood** at Persidangan dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa 2017 (PECIPTA 2017), Stadium Tertutup Kompleks Sukan Negeri, Gong Badak, Kuala Nerus,



Terengganu, 7-9 October 2017. International Level. Organised by Ministry of Higher Education, Malaysia.

4. **Special Award (from Indonesia)** for product **Engineered Glulam Timber Sleeper from Tropical Heavy Hardwood** at Seoul International Invention Fair (SIIF), COEX, Seoul, South Korea, 30 Nov. – 3 Dec. 2017. International Level. Organised by Korean Invention Promotion Association.
5. **Bronze Award** for product **Engineered Glulam Timber Sleeper from Tropical Heavy Hardwood** at Seoul International Invention Fair (SIIF), COEX, Seoul, South Korea, 30 Nov. – 3 Dec. 2017. International Level. Organised by Korean Invention Promotion Association.
6. **Gold Award** for product **Mixed-species Glulam Beam from Malaysian Medium and Light Hardwood Timber** in Invention, Innovation & Design Exposition (IIDEX) 2017, Dewan Agung Tunku Canselor (DATC), UiTM Shah Alam, Selangor, Malaysia. 25-29 September 2017. National Level. Organised by Universiti Teknologi MARA.
7. **Bronze Award** for product **Glued Laminated Timber Railway Sleepers from Malaysian Tropical Heavy Hardwood** in Invention & Innovation Awards 2016 and Malaysia Technology Expo (MTE) 2016, at PWTC, Kuala Lumpur, 18-20 Februari 2016. International Level. Organised by Malaysian Association of Research Scientists (MARS).
8. **Bronze Award** for product **Student Learning Time Manual (MySLT): A Tool for Time Management Skills** in International Invention & Innovative Competition (InIIC Series 1/2016) at PNB Ilham Resort, Port Dickson, Malaysia pada 28 Mei 2016. International Level. Organised by MNNF Network dan MNNF Publisher.
9. **Silver Award** for product **MySLT: A Manual for Students' Time Management Skills** in Invention, Innovation & Design Exposition 2016 at Dewan Agung Tuanku Canselor (DATC), UiTM, Shah Alam, Selangor, 20-23 September 2016. National Level. Organised by RMI dan RIBU UiTM Malaysia.
10. **Silver Award** for product **Glued Laminated Timber Railway Sleepers from Malaysian Tropical Heavy Hardwood** in Invention, Innovation & Design Exposition 2015 at Dewan Agung Tuanku Canselor (DATC), UiTM, Shah Alam, Selangor, 27-30 April 2015. National Level. Organised by Research Management Institutes (RMI), UiTM Malaysia.
11. **Patent** for **Glued Laminated Timber Sleeper** from Intellectual Property Corporation of Malaysia (MyIPO) with patent no. PI2011002551. (In process).