

CURRICULUM VITAE



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Department of Civil Engineering, Universiti Putra Malaysia,
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Education

1. Ph.D., 1998, Sheffield University, UK
2. M.S. (Structures), 1988, The Univ. of Michigan at Ann Arbor
3. B.Sc. (Civil Engineering), 1985, Michigan State University (ranked 3 of 80 graduates)

Areas of Interest

1. Concrete Structures/ Structural Assessment/ High Performance Concrete/ NDT

Professional Qualification/ Membership/ Affiliation

1. Professional Engineer, Board of Engineers Malaysia (P.Eng)
2. Fellow, Institution of Engineers, Malaysia (FIEM)
3. Member, American Society of Civil Engineers (MASCE)
4. Member, Road Engineers Association of Asia and Australasia (MREAA)
5. Member, Malaysian Design and Invention Society (MINDS)
6. Past Member, Chi Epsilon – Civil Engineering Students Honor Society, USA

Appointments

Position	Duration
1. Panel Penilai, Wakil Kementerian Pengajian Tinggi Bagi Program/Projek R&D&C Di Bawah JK Pelaburan Dana Awam (JKPDA)	2017
2. Ahli, Jawatankuasa Pemilihan dan pemantauan Demand-Driven Innovation Project By Public Private Research Network (PPRN)	2015
3. Ahli, Jawatankuasa Teknikal Anugerah Tokoh Akademik Bahasa Melayu	2014 - 2015
4. Panel Penilai, Agensi Kelayakan Malaysia (MQA)	July 2014 – July 2017
5. Deputy Chairman, Higher Education Blueprint, Ministry of Higher Education and UPM	Mac 2014 - December 2015
6. Ahli, Jawatankuasa Kajian Semula Hala Tuju Universiti Teknologi MARA (UiTM)	August 2014 – December 2014
7. Editor, Journal of King Saud University – Engineering Science	2013
8. Editorial Board Member, International Journal of Construction Materials and Structures (IJCMS)	2013
9. Editorial Advisory Board, Malaysian Construction Research Journal	2012
10. Ahli Majlis Sains MARDI	Mac 2011 – February 2013
11. Deputy Vice Chancellor (Research and Innovation), UPM	August 2007– December 2007
12. Dean, Faculty of Engineering, UPM	2007 – 2010

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| 13. Deputy Dean (Academic), Faculty of Engineering, UPM | 2006- 2007 |
| 14. Head, Department of Civil Engineering | 1999 – 2006 |
| 15. Associate Director, Engineering Accreditation Unit,
Board of Engineers, Malaysia (BEM) | 2006 – 2011 |
| 16. Professor, Department of Civil Engineering, UPM | Jan. 2009 - Present |
| 17. Associate Professor, Department of Civil Engineering,
UPM | 2001 – 2009 |
| 18. Lecturer, Department of Civil Engineering, UPM | 1988 – 2001 |
| 19. Structural Engineer, Kemasepakat Sdn. Bhd., an
industrial attachment to gain P.Eng. | 1990-1992 |
| 20. Tutor, Department of Civil Engineering, UPM | 1985 – 1988 |

Publications

Journals (30 recent journals)

1. Sutan, N.M., Yakub, I., **Jaafar, M.S.**, Matori, K.A., Sahari, S.K. (2015), Sustainable nanopozzolan modified cement: Characterizations and morphology of calcium silicate hydrate during hydration, *Journal of Nanomaterials*, 713258
2. Hejazi, F., Shoaie, M.D., **Jaafar, M.S.**, Rashid, R.S.B.M. (2015) Effect of viscous dampers on yielding mechanisms of RC structures during earthquake, *Earthquake and Structures*, 8 (6), pp. 1499-1528
3. Alwathaf, A.H.a, Thanoon, W.A.b, **Jaafar, M.S.c** (2015), Finite-element analysis of an alternative masonry wall system, *Proceedings of the Institution of Civil Engineers: Structures and Buildings* Volume 168, Issue 4, 1 April 2015, Pages 237-250
4. Alawad, O.A.ab , Alhozaimey, A.a, **Jaafar, M.S.b**, Al-Negheimish, A.a, Aziz, F.N.A.b, Microstructure analyses of autoclaved ground dune sand-Portland cement paste, *Construction and Building Materials* Volume 65, 29 August 2014, Pages 14-19
5. Abd. Aziz, F.N.A. , Bida, S.M., Nasir, N.A.M., **Jaafar, M.S**, Mechanical properties of lightweight mortar modified with oil palm fruit fibre and tire crumb, *Construction and Building Materials*, Volume 73, 30 October 2014, Pages 544-550
6. Abdulrazeg, A.A.a , Noorzai, J.bc, **Jaafar, M.S.b**, Khanehzaei, P.b, Mohamed, T.A.b Thermal and structural analysis of RCC double-curvature arch dam, *Journal of Civil Engineering and Management*, Volume 20, Issue 3, 4 May 2014, Pages 434-445
7. Alhozaimey, A.a, Alawad, O.A.b, **Jaafar, M.S.b**, Al-Negheimish, A.a, Noorzai, J.b, Use of fine ground dune sand as a supplementary cementing material , *Journal of Civil Engineering and Management*, Volume 20, Issue 1, 2014, Pages 32-37
8. Alawad, O.A.ab , Alhozaimey, A.a , **Jaafar, M.S.b** , Al-Negheimish, A.a , Abdul Aziz, F.N.b Properties of mortar incorporating ground dune sand as cement replacement material, *Advanced Materials Research*, Volume 925, 2014, Pages 334-338
9. Alhozaimey, A.a, Fares, G.a , Al-Negheimish, A.a, **Jaafar, M.S.b** The autoclaved concrete industry: An easy-to-follow method for optimization and testing , *Construction and Building Materials*, Volume 49, 2013, Pages 184-193
10. Abdulrazeg, A.A.a , Noorzai, J.b, Mohammed, T.A.b, **Jaafar, M.S.**, Modeling of combined thermal and mechanical action in roller compacted concrete dam by three-dimensional finite element method, *Structural Engineering and Mechanics*, Volume 47, Issue 1, 10 July 2013, Pages 1-25
11. Yardim Y., Waleed A.M.T., **Jaafar M.S.**, Laseima S. AAC-concrete light weight precast composite floor slab (2013) *Construction and Building Materials*, 40, pp. 405-410.
12. Shoaie M.D., Alkarni A., Noorzai J., **Jaafar M.S.**, Huat B.B.K. Review of available approaches for ultimate bearing capacity of two-layered soils, (2012) *Journal of Civil Engineering and Management*, 18 (4), pp. 469-482.
13. Noorzaie J., Pour P.M., **Jaafar M.S.**, Fong Y.C., Thanoon W.A.-M. Numerical simulation of railway track supporting system using finite-infinite and thin layer elements under impulsive loads (2012) *Journal of Civil Engineering and Management*, 18 (2), pp. 245-252.
14. Alhozaimey A., Al-Negheimish A., Alawad O.A., **Jaafar M.S.**, Noorzai J. Binary and ternary effects of ground dune sand and blast furnace slag on the compressive strength of mortar (2012) *Cement and Concrete Composites*, 34 (6), pp. 734-738.
15. Ohu R.B., **Jaafar M.S.**, Aznieta F.N., Alwathaf A.H. Performance of concrete beams reinforced with embedded CFRP plates (2012) *Indian Concrete journal*, 86 (7), pp. 7-13.
16. Alhozaimey A., **Jaafar M.S.**, Al-Negheimish A., Abdullah A., Taufiq Y.H., Noorzaie J., Alawad O.A. Properties of high strength concrete using white and dune sands under normal and autoclaved curing (2012) *Construction and Building Materials*, 27 91), pp. 218-222.

17. Thanoon W.A., Yardim Y., **Jaafar M.S.**, Noorzaie J. Structural response of interlocking composite masonry slab (2011) Proceedings of the Institution of Civil Engineers: Structures and Buildings, 164 (6), pp. 409-420. Cited 1 time.
18. Safiee N., **Jaafar M.S.**, Alwathaf A., Noorzaie J., Abdul Kadir M. Structural behaviour of mortarless interlocking load bearing hollow block wall panel under out-of-plane loading (2011) Advances in Structural engineering, 14 (6), pp. 1185-1196.
19. Alwathaf A.H., Ali A., **Jaafar M.S.**, Algorafi M.A., Stress-strain modelling of reinforced concrete membrane structures (2011) International Journal of Physical Sciences, 6 (30), pp. 6820-6828.
20. Safiee N.A., **Jaafar M.S.**, Noorzaie J. Behavior of mortarless wall subjected to in-plane combine loading (2011) Advanced Materials Research, 264-265, pp. 1746-1751.
21. Al-Gorafi M.A., Ali A.A.A., Othman I., **Jaafar M.S.**, anwar M.P. Externally prestressed monolithic and segmental concrete beams under torsion: A comparative finite element study (2011) IOP Conference Series: Materials Science and Engineering, 17 (1) art. No. 012041.
22. Hejazi F., Jilani S., Noorzaie J., Chieng C.Y., **Jaafar M.S.**, Abang Ali A.A. Effect of soft story on structural response of high rise buildings (2011) IOP Conference Series: Materials Science and Engineering, 17 (1), art. no. 012034.
23. Pour P.M. Karisiddappa K., **Jaafar M.S.**, Noorzaie J. A comparative study between codes of spectrum for a single degree of freedom (sdof) system in two different hazardous regions (2011) IOP Conference Series: Materials Science and Engineering, 17 (1), art. no. 012033.
24. Ghatee P., **Jaafar M.S.**, Noorzaie J., Ibrahim A., Ali A.A.A. Plain concrete linearized stiffness diminution modelling subjected to different stresses-strain relationship models (2011) IOP Conference Series: Materials Science and Engineering, 17 (1), art. no. 012037.
25. Hakim S.J.S., Noorzaie J., **Jaafar M.S.**, Jameel M., Mohammadhassani M. Application of artificial neural networks to predict compressive strength of high strength concrete (2011) International Journal of Physical Sciences, 6 (5), pp. 975-981. Cited 3 times.
26. Hejazi F., Mohammad Dalili S., Noorzaie J., **Jaafar M.S.**, Abang Ali A.a., Thanoon W.A. Seismic response evaluation of RC tower connected to short rigid buildings (2011) Key Engineering Materials, 462-463, pp. 569-575.
27. Hejazi, F., Kojouri S.J., Noorzaie J., **Jaafar M.S.**, Thanoon W.A., Abdullah A.A.A. Inelastic seismic response of RC building with control system (2011) Key Engineering Materials, 462-463, pp. 241-246.
28. O.Kohnehposhi., Noorzaie, J., **Jaafar, M.S.**, Raizal Saifulnaz, M.R, Three Dimensional Finite Element Analysis of FRP strengthened RC beams Using New 3D Interface Element". Interaction and Multiscale Mechanics, Vol. 4, No. 4 (2011) pp. 257-271. (ISI Thomson).
29. O. Kohnespooshi, Noorzaie, J., **Jaafar, M.S.**, Raizal Saifulnaz, M.R., "Three Dimensional Finite Element Simulation of Reindorced Concrere Beams Post-Tensioned in Shear region, Korean Society of Civil Engineering Journal (KSCE), 15(6), 1081-1090 (2011) ISI (0.45)
30. O. Kohnehposhi, J. Noorzaie, **Jaafar, M.S.**, Raizal Saifulnaz, M.R., "Development of a Special Interface Element Between Brick and Plate Bending Elements' Elsevier, Procedia Engineering 14 (2011) 734-742,

Conference Proceedings (30 recent Conference Proceedings)

1. F. Hejazi, J. Noorzaie, **M. S. Jaafar** and A. A. Abang. "Application of nonlinear damper in reinforced concrete structure control". The Fifth International Structural Engineering and Construction Conference. Las Vegas, NV, USA - September 21 – 27, 2009 (Scopus Index)
2. **M. S. Jaafar**, F. Hejazi, A. A. Abang and J. Noorzaie. "Seismic analysis of interlocking mortarless hollow block in wall – foundation – soil system". The Fifth International Structural Engineering and Construction Conference. Las Vegas, NV, USA - September 21 – 27, 2009 (Scopus Index)
3. F. Hejazi, J. Noorzaie, **M. S. Jaafar** and A. A. Abang, M. Seifi. "3 Dimensional Damper Elements for Reinforced Concrete Frames". Lifeline Earthquake Engineering in a Multihazard Environment, Oakland, California. ASCE, USA – 2009.
4. M. Seifi, J. Noorzaie, **M. S. Jaafar** and A. A. Abang, F. Hejazi. " Comparative Study among Conventional and Adaptive Pushover Methods". Lifeline Earthquake Engineering in a Multihazard Environment. Oakland, California. ASCE, USA – 2009
5. Y. Yardim, W. Thanoon, **M.S. Jafaar**, J. Noorzaie, Shibli R. M. Khan and Kamal N.M, "Performance of Precast Ferrocement Panelfor Composite Masonry Slab System" ICCBT2008 - B - (36) - pp 397408
6. **M.S.Jaafar**, M.M.Johari , N.Norodin,J.Noorzaie,"Assesment Strategy for an outcome Based Education Approach", ICEE ,Hungary ,2008.
7. E. Yazdan Panah, J. Noorzaie, **M. S. Jaafar** and M. Seifi "Earthquake Response of Steel Building

- with Viscous Brace Damper". ICCBT2008 - C - (05) - pp 59-68
8. M. Seifi, J. Noorzaei, **M.S. Jaafar** and E. Yazdan Panah "Nonlinear Static Pushover Analysis in Earthquake Engineering: State of Development". ICCBT2008 - C - (06) - pp 69-80.
 9. S. R. M. Khan, K. N. Mustafa, **M. S. Jaafar**, J. Noorzaei, M. R. A. Kadir and W. A. M. Thanoon "Estimation of Static Elastic Modulus of HSC Using UPVmethod". ICCBT2008 - C - (22) - pp 245254.
 10. J. Noorzaei, S.J.S Hakim, **M.S. Jaafar**. "Application of Artificial Neural Networks to Predict Compressive High Strength of Concrete", International Conference on Construction and Building Technology, 16-20 june 2008, Kuala Lumpur, Malaysia.
 11. F. Hejazi, J. Noorzaei, **M. S. Jaafar** and A. A. Abang. "Seismic analysis of interlocking mortarless hollow block". 8rd International congress on advances in civil engineering. September 15-17, 2008 -Istanbul, Turkey.
 12. Kok S.T., Bujang K.H. , **M.S. Jaafar**, Azlan A. Aziz and J.Noorzaei, Lateral loading on pile due to soil movement, 3rd. World Engineering Congress, Proceedings of Civil & Environmental Eng. Conference, Penang, 5-9 August, 2007
 13. S.J.S.Hakim, **M.S. Jaafar**, M.Shahbakhsh, J.Noorzaei, A.Kordi, Application Of Artificial Neural, Network To Predict Compressive High Strength Of Concrete, 3rd. World Engineering Congress, Proceedings of Civil & Environmental Eng. Conference, Penang, 5-9 August, 2007
 14. F. Hejazi, J. Noorzaei, M. seifi, **M. S. Jaafar**, A.A. Abang Ali and W. A. Thanoon Protection Of Buildings In Vibration Excitation, 3rd World Engineering Congress, Proceedings of Civil & Environmental Eng. Conference, Penang, 5-9 August, 2007
 15. Huda A.M. Thanoon, J. Noorzaei, T.A. Mohammed, Waleed. A. Thanoon and **M.S. Jaafar**, Seismic Hazard Assessment Of RCC Dam: A Dynamic Analysis In Time Domain, 3rd World Engineering Congress, Proceedings of Civil & Environmental Eng. Conference, Penang, 5-9 August, 2007
 16. Ghatee Peyman, Ibrahim Azmi, **M.S. Jaafar** and Abang Ali Abang Abdullah, Performance-Based Seismic Design Philosophy Incorporating Vertical Seismic Component In The Near Field, 3rd World Engineering Congress, Proceedings of Civil & Environmental Eng. Conference, Penang, 5-9 August, 2007
 17. M. Seifi, W.A. Thanoon, F. Hejazi, **M.S. Jaafar** and J.Noorzaei, Evaluation Of Capacity Curve Of Building Structures With The Proposed Optimized Bilinear One, 3rd World Engineering Congress, Proceedings of Civil & Environmental Eng. Conference, Penang, 5-9 August, 2007
 18. Mohammad A. Al-Gorafi, Abang Abdullah Abang Ali, **M. S. Jaafar** and Ismail Othman, Performance Of Segmental Prestressed Concrete Bridges Under Combined Stresses: A Critical Review, 3rd World Engineering Congress, Proceedings of Civil & Environmental Eng. Conference, Penang, 5-9 August, 2007
 19. Salihudin Hassim, **M.S. Jaafar** and Saiful Azri, The Contractors Risks In The IBS Housing Projects In Malaysia, 3rd World Engineering Congress, Proceedings of Civil & Environmental Eng. Conference, Penang, 5-9 August, 2007
 20. J.Noorzaei, S.J.S.Hakim, **M.S. Jaafar** And Waleed A.M.Thanoon, "Development Of Artificial Neural Networks For Predicting Concrete Compressive Strength", IntEc 2007, 2nd International Engineering Convention 2007, 12-16 March 2007, Riyadh, Saudi Arabia.
 21. M. Paknahad, J. Noorzaei, **M.S. Jaafar** and Waleed AM Thanoon Nonlinear analysis of shear wall System with Optimal Membrane Triangles included soil structure interaction, 4th International Structural and Construction Engineering, ISEC-04, Sept.2007, Australia.
 22. W. A. Thanoon, **M.S. Jaafar** and J. Noorzaei, "Development of a semi-fabricated composite system for floor slab construction, 4th International Structural and Construction Engineering, ISEC-04, Sept.2007, Australia.
 23. Shibli R.M Khan, J. Noorzaei, M.R.A. Kadir and **M.S Jaafar**, W.A.M Thanoon, "Predicting Strength Of Concrete Using Sclerometer Test-Reliability of the Regression Models, 4 International Structural and Construction Engineering, ISEC-04, Sept.2007, Australia.
 24. F. Hejazi, A. A. Abang Ali, Waleed A. Thanoon, **M.S. Jaafar** and J. Noorzaei, " Seismic Resistance of Frame Buildings using Effective Control System, World Housing Congress 2007, 1-5 July 2007, Terengganu, Malaysia
 25. Waleed A. Thanoon, **M. S. Jaafar**, J. Noorzaei, and Labeed A. Al-qaatabi, "Structural Behavior Of Interlocking Load Bearing Hollow Block Wall With Opening, World Housing Congress 2007, 1-5 July 2007, Terengganu, Malaysia
 26. H.A. Thanoon, **M.S. Jaafar**, W.A. Thanoon, T.A. Mohammed and J. Noorzaei , Debonding, Slipping and Crushing Effects on the Seismic Response of a Roller Compacted Concrete Dam, Proceedings of the 8th International Conference on Computational Structures Technology, Spain 12-15 Sept 2006, Civil-Comp Press, UK.

27. Waleed A. Thanoon, J. Noorzae, and **M.S. Jaafar**, Inelastic Analysis Of Reinforced Concrete Beam Strengthened With CFRP" the eight International Conference on Computational Structures Technology, Las Palmas de Gran Canaria, Spain, 12-15 Sept 2006.
28. S. M. Ajaj, Waleed .A. M. Thanoon, **M. S. Jaafar**, J. Noorzaei, "Two-Dimensional Nonlinear Analysis of Cable Stayed Bridges", Proceeding of APSEC 2006, 5-6 Sept. 2006, Malaysia
29. Huda A. T, Karissiddapp, J.Noorzaei, **M. S. Jafaar**, Waleed A. Thanoon and T. A. Mohammed, "Nonlinear Seismic Response of Kinta RCC Dam, 13th Symposium on Earthquake Engineering, IIT Roorkee, 16-18 Dec 2006, India
30. Waleed A. Thanoon, J. Noorzaei, **M. S. Jaafar**, Mohammad a. al Gorafi, "Soil-Structure Interaction in Shallow Foundation Framed Building, Proceeding of APSEC 2006, 5-6 Sept. 2006, Malaysia

Books (If any)

1. Rahman Wagiran, Megat Johari MMN, **M.S Jaafar**, ..., *Sistem Pengurusan Kualiti Pendidikan Tinggi (PUTRA 3Q) Jilid 1*, Penerbit UPM, 2005
2. A.F Liew Abdullah, Megat Johari MMN, **M.S Jaafar**, ..., *Sistem Pengurusan Kualiti Pendidikan Tinggi (PUTRA 3Q) Jilid 2*, Penerbit UPM, 2005
3. M.R. Osman, Megat Johari MMN, **M.S Jaafar**, ..., *Sistem Pengurusan Kualiti Pendidikan Tinggi (PUTRA 3Q) Jilid 3*, Penerbit UPM, 2005

Chapter in Books (If any)

Research Grants

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Performance Study of High Strength Autoclaved Concrete for ICP Piles - completed	28,000	1999-2000	ICP Sdn. Bhd
2.	Development of In-Situ Stress Measuring Devices, UPM - completed	10,000	1998	
3.	Bridge Condition Assessment & Monitoring - completed	489,000	1999-2001	Ministry of Science & Technology
4.	Mathematical Modelling of Non-Destructive Test Results for Concrete Structures - completed	178,000	2002-2005	Ministry of Science & Technology
5.	Flooring and Roofing System - completed	195,000	2002-2005	Ministry of Science & Technology
6.	QH Design, within AQH Programme - completed	100,000	2002-2005	Construction Industry Development Board (CIDB)
7.	Development of ANN for Assessment of Bridge Condition Assessment – completed	143,000	2006-2008	MOSTI
8.	Use of Sand Dune for High Performance Concrete - completed	1.78mil	2009-2012	King Saud University Research Grant
9.	Strength Assessment of Strengthened Box Girders (91880) - Completed	36,000	2009-2011	RUGS
10.	Development of Instrument for Quality Assessment of Private Colleges (MyQuest) - Completed	365,000	2009-2010	MOHE
11.	Development of Numerical tool to Predict Structural Response of RC and PSC Bridges Strengthened With and Without FRP(5523849)	40,000	2010-2012	FRGS MOHE

12.	Formulation of Magneto-/Rheological Dampers for Reinforced Concrete Structures Subjected to Dynamic Load (5524256)	87,000	2013-2015	FRGS, MOE
13.	MyQuest Second Phase	698,880	2013	MOE

Awards/Recognition (Current)

No.	Name of awards	Title	Award Authority	Award Type	Year
1.	Patent	Interlocking Mortarless Load Bearing Building Block System		<ul style="list-style-type: none"> • UK (GB2361254), • Malaysia (MY-115629-A) • US Patent 09/834.187, • Swiss Patent. No.Nr.2001685/01 (Pending) 	2002 2003 2004
2.	Patent	Interlocking Ferrocement-Brick Composite Slab System		Malaysia – PI 20044694	2004
3.	Patent	Revetment Block System for River Bank Protection		Malaysia – PI 20043830	2004
4.	Patent	Early Strength Detection System for in-situ High Strength Concrete		Approved for Patent Drafting	Mac. 2008
5.	Patent	Cement/Aggregate Composition, Concrete Product and Method For Making A Concrete Product		US 2011/0048287 A1	2011
6.	Patent	A System to Administer an Outcome Based Education		Malaysia – PI 2010003169 PCT/MY2011000115	2012
7.	Certificate of Excellence	Reputation Management & Strategic Marketing Orientation	IBN International	International	2013
8.	Silver Medal		Pameran Rekacipta Penyelidikan dan Inovasi UPM	UPM	2012
9.	Certificate of Recognition	Corporate Directors Training Programme Fundamental	Companies Commission of Malaysia	National	2012



10.	Darjah Kebesaran Dato'	Ulang Tahun Hari Keputeraan Baginda Ke 66.	Sultan Sharafuddin Idris Shah (D.S.I.S.) –	National	2011
11.	Excellence Service		UPM		2011
12.	Silver Medal	Development of Computational System in Safety Evaluation of Infrastructures Such As Roller Compacted Concrete Dams	22 th International Invention, Innovation & Technology Exhibition (ITEX)	International	2011
13.		Anugerah Kecemerlangan Dalam Perundingan Tahun 2010	UPM	UPM	2011
14.		Anugerah Kecemerlangan Dalam Pengajaran Tahun 2010	Fakulti Kejuruteraan	Faculty	2011
15.	Gold Medal	MyOBE – Outcome Based Education Management System	Malaysia Technology Expo 11 (MTE)	National	2011
16.	Gold Medal and Special Award	Use of Sand Dune as Partial Cement Replacement	British Invention Show (BIS)	International	2009
17.	Gold Medal	Use of Sand Dune as Partial Cement Replacement	PRPI2009	UPM	2009
18.	Bronze Medal	Early Concrete Strength Detection System	36 th International Exhibition of Invention, Geneva	International	2008
19.	Champion	Teaching Excellence (Science and Engineering Discipline)	APP2007	UPM	2007
20.	Bronze Medal	Early Strength Detection System for in-situ High Strength Concrete.	Malaysian Technology Expo	National	2007
21.	Silver Medal	Early Strength Detection System for in-situ High Strength Concrete	UPM Research Invention 2007	UPM	2007

22.	Excellent Scientist Certificate		Ministry of Higher Education Malaysia	National	2005
23.	Gold Medal and Special Award (International Category)	IFIC Slab system	The British Invention Show (BIS), London	International	2005
24.	Silver Medal	IFIC Slab system	The International Exhibition (ITEX), PWTC, Kuala Lumpur	International	2005
25.	Gold Medal	Rivetment System	IENA, Belgium	International	2005
26.	Silver Medal	Rivetment System	The International Exhibition (ITEX), PWTC, Kuala Lumpur	International	2005
27.	Excellent Service Award		UPM	UPM	2004
28.	Who's Who in Computational Science and Engineering		Published by Saxe-Coburg Publications in Autumn 2004	International	2005
29.	The Institution of Engineers Malaysian (IEM) travel grant	Paper Presentation at 21 CAFEO, Yogyakarta, Indonesia	IEM	National	2003
30.	Excellent Service		Certificate UPM	UPM	2003
31.	Construction Industry Award for R&D	Interlocking Load-Bearing Hollow Block Building System	CIDB Malaysia	National	2002
32.	Excellent Service		Certificate UPM	UPM	2002
33.	Silver Medal Award	Stress Measuring Device	R & D Exhibition, Faculty of Engineering UPM	Faculty	2002
34.	Gold Medal Award	The Invention of Interlocking Load-bearing Hollow Block	International Exhibition of Invention, Geneva	International	2001
35.	Excellent Service		Certificate UPM	UPM	2001
36.	Excellent Teaching Certificate		Faculty of Engineering UPM	Faculty	2001

37.	Bronze Medal Award	Bridge Condition Assessment Program	AWAM 2000, Faculty of Engineering UPM	Faculty	2000
38.	Excellent Service		Certificate UPM	UPM	2000
39.	Excellent Teaching Certificate		Faculty of Engineering UPM	Faculty	2000
40.	Excellent Service		Certificate UPM	UPM	1999
41.	Excellent Teaching Certificate		Faculty of Engineering UPM	Faculty	1997

Professional Services/Consultation

No	Year	Title	Authority	Amount
1.	2013	Penarafan Sistem Pengukuran Kualiti dan Kesetaraan Kolej Swasta (MyQUEST) kali kedua bagi tahun 2013	Kementerian Pendidikan Tinggi (KPT)	857,168.00
2.	2013	Pembangunan Modul Training of Trainers (ToT) Dalam Bidang Project Oriented Problem Based Learning (POPBL)	Kementerian Pengajian Tinggi (KPT)	170,056.00
3.	2013	Penarafan Politeknik, Kementerian Pengajian Tinggi (KPT)	Kementerian Pengajian Tinggi (KPT)	338,000.00
4.	2006	Bridge Design, Kg. Sawah, Banting	Zaidun & Ling	
5.	2006	Bridge Design Manual	Zaidun & Ling	
6.	2005	JKR Bridge Audit for Federal Bridges in Selangor, Negeri Sembilan and Penang		
7.	2003	Study on Malaysian Engineering Technology Education	Board of Engineers Malaysia (BEM)	
8.	1999	Study on the Malaysian Engineering Education	Institution of Engineers Malaysia (IEM)	
9.	2003	Study on Codes for Procurement	Ministry of Finance, Malaysia	
10.	2003	Standardization of Precast Concrete Components	Construction Industry Development Board	
11.	2003	Bridge Design Audit	Public Works Department and QSE Sdn. Bhd.	
12.	2002	Assessment and Rehabilitation of Underground Carpark at Putrajaya	JNA Associates Sdn. Bhd.	
13.	2000	Evaluation of Rapidwall Panel System	CIDB	

Student Supervision

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Omer Abdalla Alawad Hassan (GS25388)	Use of Ground Dune Sand As Partial Cement Replacement Material	Ongoing
2.	Shibli (GS12464)	NDT for High Performance Concrete	Graduated
3.	Huda AMT (GS13933)	Analysis of Roller Compacted Concrete Dams	Graduated
4.	Peyman Ghatee (GS15709)	Progressive Collapse of Shear Wall System under Earthquake Loads	Graduated
5.	Norazizi	Comprehensive Analysis and Design of Interlocking Block Wall System	Graduated
6.	Rachel	Post Tension Box Beam	Graduated

MS with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Shibli Rasul	Effectiveness of Non-destructive Tests for Concrete Assessment	Graduated
2.	Yarvuz	Development of Expert System for Bridge Condition Assessment	Graduated
3.	Mohamad Farouk Tajul Arif (GS14631)	Coastal Structures	Graduated

MS without Thesis (Main Supervisor)

No.	Name	Title	Status
1.	Norsuzailina	Effectiveness of NDT techniques on distressed concrete	Graduated
2.	Ardal	Analysis, Design and Cost Comparisons of Simply Supported and Continuous Bridges	Graduated
3.	Ong Teik Chuan	Comprehensive Analysis and Design of Concrete and Pre-stressed Bridges Using Spreadsheet	Graduated
4.	Khor Min Sze (GS 08666)	Analysis of Continuous Precast Pre-stressed Bridge Made of Precast Members	Graduated
5.	Chai Kok Hong (GS04081)	Non-destructive Tests for Insitu Structures	Graduated
6.	Chong Chee Yen	Corrosion Assessment of Concrete Structure	Graduated
7.	Au Koon Yew (GS08549)	Comparison of Different Method to Strengthen the Reinforced Concrete Beams	Graduated
8.	Mohd. Halim	Non-Destructive Assessment of High Performance Concrete	Graduated
9.	Zarina Itam	Secondary Effects on Integral Bridges	Graduated
10.	Chan Kim Liang	Behaviour of Externally Pre-Stressed Beams	Graduated
11.	Zulkifly	Use of Bottom Ash In Building Materials	Graduated
12.	Noruzwa	Behaviour of Externally Pre-Stressed Beams	Graduated
13.	Norhafida	Unbounded Pre-Stressed Beams	Graduated
14.	Basri Nordin	Time Dependent analysis for Segmental Bridge	Graduated

No.	Name	Title	Status
15.	S. Kandasamy	Experimental Study Of Externally Pre-Stressed Beams	Graduated
16.	Rosli	Optimum Sections for Prestressed Concrete Beams	Graduated
17.	Syed Burhanuddin Hilmi,	Corrosion Assessment on RC and Its Service Life Prediction	Graduated
18.	S. Amutha a/p Subramaniam	Effectiveness of Epoxy Coating Nitoprime Zincrich as Corrosion Protection Method for Reinforcing Steel	Graduated
19.	Ashiru	NDT Test for Concrete Structures	Graduated
20.	Fadzil	Integral Bridges	Graduated
21.	Saad	NDT for Buildings	Graduated
22.	Mehdi	NDT for Buildings	Graduated
23.	Norazman	Bridge Condition Ratings	Graduated
24.	Ali Bayat	Bridge Condition Assessment	Graduated
25.	Masimawati	Bridge Condition Rating Using ANA	Graduated