

## CURRICULUM VITAE (CV)

### 1. PERSONAL DATA

Name : Izwan Bin Johari  
Nationality : Malaysian  
Current Position : Senior Lecturer DS51  
Qualifications : Doctor of Philosophy (PhD) USM 2010  
Field of specialisation : Heritage Material and Structural Repair  
Timber, Concrete and Masonry Engineering  
Tel (office) /HP : 04-5996291 / 0195272971  
Fax : 04 5996906  
email : ceizwan@usm.my , mrizwanjohari@gmail.com



### 2. ACHIEVEMENTS

On going Grants	:	Radiation Shielding Effectiveness of Lightweight EPS-SF Concrete Embedded with Electrospun Bi- or Bi/W-PVA Nanofiber Mats, RM99,925	2018	2020	RUI
		Thermal Performance of Treated and Untreated Sago Pit Waste Geopolymer Brick, RM68,010	2018	2020	RUI
		Fire Safety Audit: Developing holistic model for Fire Safety Management Method in the Government Hospital Buildings. RM80,000	2019	2021	RUI
		An Investigation on Mechanical Properties of Cellular Lightweight Mortar Subjected to Elevated Temperatures RM25,000	2018	2019	USM - Bridging

Completed Grants	:	Development of green brick using waste material	Feb 2011	Feb 2012	Incentive grant
		Performance of Composite Fired-Clay Brick Containing Rice Husk Ash Against Aggressive Environment	15/8/11	14/8/13	Short Term Grant USM
		Study on the Engineering Properties of Brick Containing Sewage Sludge Waste at the Coastline Area (Main - Researcher)	15/11/13	14/11/14	Short Term Grant USM
		Fundamental Approach of Predicting Insulation and Structural Response of Foamed Concrete Panel for Fire Resistance	1/6/12	31/5/14	FRGS
		Implementation of Safety Aspects by Contractor on Construction Industry	2015	2017	Short Term Grant USM
		Study on the usage of Fiber Reinforce Polymer as repair material for damage wall structure built from different types of fired clay brick	2016	2018	Short Term Grant USM
		Industrial Sponsorship (RM25,000)	2017	2017	Global Port Engineering & Services Sdn Bhd.

Graduate students : Post Graduate

1. Master – Atman Moloud Mohamed Ali Bzabez (2011)
2. Master – Musbah Ah M Gaet (2011)
3. Master – Nabeel Abed Farhan (2011)
4. Master – Sadoon Mushrif Abdallah (2011)
5. Master – Wan Rohanina Wan Ibrahim (2014)
6. Master - Chong Lip Yoon (2017)
7. Master - Wan Norsariza Binti Wan Husin (2018)

8. PhD - Omer Farouk Ibraheem (2016)
9. PhD - Siti Hafizan Binti Hassan (2018)

Under Graduate

1. Lau Kuok Leong, 2011
2. Chng Cheow Wei, 2011
3. Khoo Yin Chuen, 2011
4. Leong Han Meng, 2012
5. Ahmad Taufiq Bin Norany, 2012
6. Mohd Zuhaidi Bin Abd Kadir, 2013
7. Muhammad Fikry Bin Radzali, 2013
8. Arvinthran A/I Raja Kumaran, 2014
9. Mastura Ghani, 2014
10. Nurizati Jailani, 2014
11. Mohammad Amri Bin Abd Hamid, 2015
12. Mohammad Fikri Bin Ismail, 2017
13. Sali Amirah Binti Razali, 2018
14. Nor Aerina Aerin Binti Mohd Ruzi, 2018

Postgraduate under supervision : 1. Master – Mohammad Ismail Yousef Albiajawi (2019)

Achievements/Awards / Recognition :

1. Anugerah International Invention Innovation Industrial Design & Technology Exhibition, ORYBEN 2005 (ITEX 2005) Silver Medal
2. Anugerah Sanggar Sanjung 2005, Kategori Produk Penyelidikan Kebangsaan
3. Anugerah Sanjungan Kategori Penerbitan Jurnal 2010
4. Invited Speaker for Malaysia Student Cooperative (KOSISMA) (2016)
5. Invited Speaker, Workshop on Concrete Durability, Assessment and Repair Techniques (National) 2018
6. Certified Trainer for BIM Modeller (structural), CIDB 2018
7. Co-chairman of The 1st International Conference of Civil Engineering, Advanced Materials and Heritage Science (ICCAMHES 2019)
8. Co-chairman of 2nd International Conference on Materials Engineering and Sciences (IConMEAS 2019)

Assesor

External Examiner

1. Syarifah Hanisah Syed Mokhtarruddin (UITM Shah Alam - Master) 2018

Internal Examiner

Doctor Of Philosophy (PhD)

1. Mustafa M.M. Altayeb (2012)
2. Alireza Panjsetooni (2013)
3. Otman Mosbah Mohamed Elbasir (2017)

Master (MSc)

1. Ahmed Abdallah Mohammed Osman (2011)
2. Hadi Soltanzadeh (2011)
3. Hussein Abdulameer Radhi Asl-Salami (2011)
4. Nibras Abbas Harbi (2012)
5. Xu Yin (2012)
6. Sakhiah Binti Abdul Kudus (2013)
7. Nur Liyana Binti Zainal (2015)
8. Mohamad Nazli Bin Md Jamil (2016)
9. Tamure Hasan (2017)

Under Graduate

1. Ling Nieng Chen (2011)
2. Marzuha Bin Mustapha (2011)
3. Mohamad Nazli Bin Md Jamil (2011)
4. Lim Hooi Fuang (2011)

Reviewer

1. Review a Technical Paper (Ref.No: F00277) entitled "Potential Use of Cockle (anadara granosa) Shell Ash as Cement Replacement in Concrete" for presentation at the "AWAM International Conference on Civil Engineering (AICCE'12), 2012, (International)
2. Review a Technical Paper (Ref.No: F00362) entitled "action of sea water on the properties of heat-treated concrete elaborated with slag cement " for presentation at the "AWAM International Conference on Civil Engineering (AICCE'12), 2012, (International)
3. Review a Technical Paper (Ref.No: F00331) entitled "Early Age Tests to Predict 28 Days Compressive Strength of Concrete" for presentation at the "AWAM International Conference on Civil Engineering (AICCE'12), 2012, (International)
4. Review a Technical Paper Ref.No: F00381) entitled "Influence of ultrafine palm oil fuel ash on electrical resistant characteristics of green high strength concrete" for presentation at the "AWAM International Conference on Civil Engineering (AICCE'12), 2012, (International)
5. Review a Technical Paper (Ref.No: F00377) entitled "Solidification Potency of Recycled Cement for Dredged Marine Clay: Age Factor"

for presentation at the "AWAM International Conference on Civil Engineering (AICCE'12), 2012, (International)

6. Review a Technical Paper (Ref.No: F00426) entitled "Domination of grain bearing on the strength properties of Engkabang jantong as fast growing timber in Sarawak" for presentation at the "AWAM International Conference on Civil Engineering (AICCE'12), 2012, (International)
7. Review a Technical Paper (Ref.No: 1569764421) entitled "Review Machinery and Machine Used in Construction Site" for presentation at "The 2013 IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA2013)", 2013, (International)
8. Review a Technical Paper (Ref.No: 1569783869) entitled "Investigation of Ground-Borne Vibration Due to Vehicle Traffic Parameter: A Case " for presentation at "The 2013 IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA2013)", 2013, (International)
9. Review a Technical Paper (Ref.No: 1569825175) entitled "Parametric Assessment for Optimized Truss Models on FRP Shear Strengthened RC Beam" for "The 2014 IEEE Colloquium on Humanities, Science and Engineering Research (CHUSER 2014)", 2013, (International)
10. Review a Technical Paper (Ref.No: 1569824511) entitled "Roof Wind Pressures for Duopitch Roof Permeable Buildings" for "The 2014 IEEE Colloquium on Humanities, Science and Engineering Research (CHUSER 2014)", 2013, (International)
11. Review a Technical Paper (Ref.No: 1569814919) entitled "Modelling of Ground Borne Vibration with Regards to Highway Pavement and Traffic Parameter" for "The 2014 IEEE Colloquium on Humanities, Science and Engineering Research (CHUSER 2014)", 2013, (International)
12. Review a Technical Paper (Ref.No: 4278193105610001000) entitled "Research Instrument Design For Performance Measures Of Green Manufacturing Practices In India - A Pilot Study" for International Journal of Environment and Waste Management (IJEWM 2013), 2013, (International)
13. Review a Technical Paper (Manuscript ID: JCDC-OA-10130066) entitle "Structural Performance of Concrete Containing Roofing Sheet Waste (RSW) as Partial Replacement of Cement" for Journal of Construction in Developing Countries, 2013, (International)
14. Review a Technical Paper "Gypsum Board Thermal Properties Exposed to High Temperatures and Fire Condition". Jurnal Teknologi, Penerbit UTM Press E-ISSN2180-3722, 2013, (International)
15. Review a Technical Paper "An experimental investigation on thermal conductivity of lightweight foamcrete for thermal insulation", Jurnal Teknologi, Penerbit UTM Press E-ISSN2180-3722, 2013, (International)
16. Review a Technical Paper "Characterization of Polymer Modified Cement Hybrid System for Strength and Durability Improvement",

Jurnal Teknologi, Penerbit UTM Press E-ISSN2180-3722, 2013, (International)

17. Review a Technical Paper (Ref.No: 1569972605) entitled "Experimental Investigation of Cold-formed Steel (CFS) Channel Material At Post Elevated Temperature" for International Civil and Infrastructure Engineering Conference INCIEC 2014, 2014, (International)
18. Review a Technical Paper " Thermal Properties of Oil Palm Shell Lightweight Concrete with Different Mix Designs", Jurnal Teknologi, Penerbit UTM Press E-ISSN2180-3722, 2014, (International)
19. Review a Technical Paper " Advantages, disadvantages and usage motivations of prefabricated building", Applied Mechanics and Materials ISSN: 1660-9336, 2015, (International)
20. Review a Technical Paper " Effects Of Coal Bottom Ash On The Compressive Strength Of Portland Cement Mortar", Applied Mechanics and Materials ISSN: 1660-9336, 2015, (International)
21. Review a Technical Paper " Performance evaluation of GGBS as a replacement for OPC and PSC in Concrete", MATEC Web of Conferences Proceedings (ISSN: 2261-236X), 2018, (International)
22. Review a Technical Paper " Hybrid fibre rubberized ECC optimization for Modulus of Elasticity", MATEC Web of Conferences Proceedings (ISSN: 2261-236X), 2018, (International)
23. Reviewer for Technical Paper in JURNAL TEKNOLOGI SPECIAL ISSUE 2018, 2018, (International)

#### Judges

1. Science & Engineering Design Exhibition, Universiti Teknologi Petronas (SEDEX35) 2015 (National)
2. Science & Engineering Design Exhibition, Universiti Teknologi Petronas (SEDEX36) 2015 (National)
3. Exhibition by the Diploma Civil Engineering student (Polytechnic Tuanku Sultanah Bahiyah Kulim Kedah), 2016 (National)
4. Science & Engineering Design Exhibition, Universiti Teknologi Petronas (SEDEX37) 2016 (National)
5. Innovation Exhibition, International Eureka Innovation Exhibition, Universiti Kuala Lumpur Malaysian Spanish Institute, 2017 (International)
6. Poster Presentation, Conference on Advanced Materials Characterization Technique 2017, International Islamic University Malaysia, 2017 (International)
7. Innovation, Competition & Exhibition by the Diploma Civil Engineering student (Polytechnic Tuanku Sultanah Bahiyah Kulim Kedah), 2017 (National)

### 3. CURRENT RESEARCH AND PAST RELATED RESEARCH:

Current Research	Title
PhD Research	Radiation Shielding Effectiveness of Lightweight EPS-SF Concrete Embedded with Electrospun Bi- or Bi/W-PVA Nanofiber Mats
Master Research	Thermal Performance of Treated and Untreated Sago Pit Waste Geopolymer Brick
Master Research	Fire Safety Audit: Developing holistic model for Fire Safety Management Method in the Government Hospital Buildings

Past Research	Title
FRGS (Grant)	Fundamental Approach of Predicting Insulation and Structural Response of Foamed Concrete Panel for Fire Resistance.
Short Term (Grant)	Performance of Composite Fired-Clay Brick Containing Rice Husk Ash Against Aggressive Environment
Short Term (Grant)	Study on the Engineering Properties of Brick Containing Sewage Sludge Waste at the Coastline Area
Short Term (Grant)	Study on the Usage of Fiber Reinforce Polymer as Repair Material for Damage Wall Structure Built from Different Types of Fired Clay Brick
Short Term (Grant)	Implementation of Safety Aspects by Contractor on Construction Industry
	Developing Of Waste Quantification Models For Malaysia Housing Projects Through Site Sampling
	The Effect of Poly(Vinyl Alcohol) In Concrete Composites Characteristic
	Determination of Web Buckling Resistance for Ship to Shore Crane Trolley Runaway Beam Strengthened with Fibre Reinforced Polymer
	Concrete block containing waste glass as fine aggregate replacement
	Effect on Different Curing Condition and Water-Cement Ratio on High Performance Concrete
	The use of GFRP in strengthening brickwork structure
	Behaviour of concrete block masonry wall subjected to compressive loading using high strength mortar

### 4. RESEARCH PUBLICATIONS AND BOOKS:

#### [i] PUBLICATIONS

1. **I. Johari**, M A Md Said\*, M A O Mydin, D Gunasegar, N.Z. Noriman, Omar S. Dahham. "Green Curb – An Alternative Method to Produce Road Curb Using Old Tyre". IOP Conf. Series: Materials Science and Engineering 454 (2018) 012187. doi:10.1088/1757-899X/454/1/012187.
2. A.M. Alakrach, N.Z. Noriman\*, Luqman I. Alrawi, Omar S. Dahham, N.A. Latip, I.Lokman Hakim, **I. Johari**. "Cure Characteristics and Physical Properties of SMR L/ EPDM Blends: Effects of Blend Ratios". IOP Conf. Series: Materials Science and Engineering 454 (2018) 012188. doi:10.1088/1757-899X/454/1/012188.

3. Hassan, S.H., Aziz, H.A., Daud, N.M., Keria, R., Noor, S.M., **Johari, I.**, Shah, S.M.R. "The methods of waste quantification in the construction sites (A review)". AIP Conference Proceedings 2020, 020056 (2018); <https://doi.org/10.1063/1.5062682>.
4. M. A. Othuman Mydin, N. Mohamad, **I. Johari**, and A. A. Abdul Samad. "Experimental investigation of lightweight foamed concrete mechanical properties with carbon fibremesh fabric reinforcement". AIP Conference Proceedings 2016, 020110 (2018); <https://doi.org/10.1063/1.5055512>
5. M. A. Othuman Mydin, N. Mohamad, A. A. Abdul Samad, **I. Johari**, and M. A. Che Munaaim. "Durability performance of foamed concrete strengthened with chemical treated (NaOH) coconut fiber". AIP Conference Proceedings 2016, 020109 (2018); <https://doi.org/10.1063/1.5055511>.
6. Md Azree Othuman Mydin , Mohd Nasrun Mohd Nawawi , Muhammad Arkam Che Munaaim , Noridah Mohamad , Abdul Aziz Abdul Samad , **Izwan Johari**, (2018) Effect Of Steel Fibre Volume Fraction On Thermal Performance Of Lightweight Foamed Mortar (Lfm) At Ambient Temperature , JOURNAL OF ADVANCED RESEARCH IN FLUID MECHANICS AND THERMAL SCIENCES , Akademia Baru , 8, 119, ISSN:22897879
7. M. A. Othuman Mydin, N. Mohamad , **I. Johari** , A. A. Abdul Samad (2018) Determination Of Bending And Axial Compression Young's Modulus Of Cellular Mortar Exposed To High Temperatures, INTERNATIONAL JOURNAL OF ENGINEERING AND TECHNOLOGY, IJET , 7, 99, ISSN:2227524X
8. Othuman Mydin, M.A., Mohamad, N., **Johari, I.**, Abdul Samad, A.A., " Determination of bending and axial compression young's modulus of cellular mortar exposed to high temperatures". International Journal of Engineering and Technology (UAE), Volume 7, Issue 2, (2018), Pages 99-102.
9. **I. Johari**, A. Hamid, S. Kasim, Z. A. Ahmad, "Microstructure and Mechanical Properties of Cement Mortar Incorporate with Coated Expanded Polystyrene Beads". Material Science Forum (2017), ISSN: 1662-9752, Vol. 888, pp 234-238, DOI: 10.4028/www.scientific.net/MSF.888.234.
10. S. Ismail, M. F. M. Razali, **I. Johari**, S. Kasim, Z. A. Ahmad, "Effect of Curing Time and Sintering to the Properties of Geopolymer Mortars". Material Science Forum (2017), ISSN: 1662-9752, Vol. 888, pp 184-187, DOI: 10.4028/www.scientific.net/MSF.888.184.
11. W. S. W. Husin, **I. Johari**, A. B. Ibrahim, "Effect of Silica Fume on the Performance of Polyvinyl Alcohol Concrete". Jurnal Teknologi (Sciences & Engineering), eISSN 2180–3722, 78: 5–10 (2016) 101–106.
12. S. H. Hassan, H. A. Aziz, **I. Johari**, M. N. Adlan, "Quantification of brick waste generated in Malaysian housing construction sites via sites sampling : development of a linear regression mode". Jurnal of Scientific Research and Development, 3(2), 2016, pp. 39-44.
13. W. S. W. Husin, **I. Johari**, A. B. Ibrahim, "Effect of Silica Fume on the Performance of Polyvinyl Alcohol Concrete". International Conference on Engineering Technology, Vocational Education and Social Science 2015 (ICETVESS 2015). 1-2 December 2015, Sultan Idris Education University, Perak.
14. W. S. W. Husin, **I. Johari**, L. K. Leong, N. Jailani, " The Effect of Chemical to the Mechanical Properties of Composite Fired Clay Brick". International Conference on Engineering Technology, Vocational Education and Social Science 2015 (ICETVESS 2015). 1-2 December 2015, Sultan Idris Education University, Perak.



15. W. S. W. Husin, **I. Johari**, M. Ghani, "Experimental Study on the strength of PVA Concrete using PCC". 9th Asia Pacific Structural Engineering and Construction Conference. 3–5 November 2015, Universiti Teknologi Malaysia, Kuala Lumpur.
16. S. H. Hassan, H. A. Aziz, **I. Johari**, M. N. Adlan, "The causes of waste generated in Malaysian housing construction sites using site observations and interviews". International Journal of Environment and Waste Management 2015, Vol. 15, No. 4, pp. 295-308.
17. O. F. Ibraheem, B.H. Abu Bakar and **I. Johari**, "Behaviour and crack development of fiber-reinforced concrete spandrel beams under combined loading: an experimental study". Structural Engineering and Mechanics, An International Journal. Techno-Press (**Impact Factor: 0.869**), April 2015, Vol. 54, No 1, pp. 1-17.
18. S. H. Hassan, H. A. Aziz, **I. Johari**, M. N. Adlan, "Quantification of Concrete Waste Generated in Housing Construction Sites Via Site Sampling: Development of a Multiple Linear Regression Model". Applied Mechanics and Materials. Vol. 802 (2015) pp 676-681.
19. O. F. Ibraheem, B.H. Abu Bakar, **I. Johari**, "Fibre reinforced concrete L-beams under combined loading". Computers and Concrete (**Impact Factor: 0.87**). 07/2014; 14(1):1-18.
20. O. F. Ibraheem, B.H. Abu Bakar, **I. Johari**, "Finite element analysis of reinforced concrete spandrel beams under combined loading". Computers and Concrete (**Impact Factor: 0.87**) 02/2014; 13(2):291-308.
21. S. H. Hassan, H. A. Aziz, **I. Johari**, M. N. Adlan, "Identification and the Quantification Method Suggested for the Major Types Generated in the Malaysian Housing Construction Sites", Journal of Applied Science and Agriculture 9(21), Special 2014, 46-51.
22. S. H. Hassan, H. A. Aziz, **I. Johari**, M. N. Adlan, "The Quantification Method Suggested for Major Waste Generated in the Housing Construction Sites", 5th International Conference On Science & Technology: Applications In Industry And Education, 17–18 September 2014 Park Royal Penang.
23. F. I. Salman, A. M. I. Said, N. M. Bunnori, **I. Johari**, "Effect of Concrete Cost on Optimum Design of I-Steel Girder Bridges", PARIPEX - Indian Journal of Research (PIJR), 2014, Vol 3, Issue 5.
24. O. F. Ibraheem, B. H. A. Bakar, **I. Johari**, "Behavior Of Spandrel Beams Under Combined Flexure, Shear, And Torsion", Awam International Conference on Civil Engineering (AICCE'12), Park Royal Penang Resort 28th-30th August 2012, pg. 54-59.
25. Chng C.W., **I. Johari** and Z.A. Ahmad," Influence of Palm Oil Fuel Ash on Properties of Fired-Clay Brick with the Presence of Sand", Awam International Conference on Civil Engineering (AICCE'12), Park Royal Penang Resort 28th-30th August 2012, pg. 129-134.
26. **I. Johari**, R. P. Jaya, S. Said, B. H. A. Bakar, Z. A. Ahmad., "Chemical And Physical Properties Of Fired-Clay Brick At Different Type Of Rice Husk Ash", International Conference on Environment Science and Engineering - ICESE 2011, April 1 - 3, 2011, Bali Island, Indonesia.
27. **I. Johari**, S. Said, B. Hisham A. Bakar, Z. A. Ahmad. Effect of the Change of Firing Temperature on Microstructure and Physical Properties of Clay Bricks from Beruas (Malaysia). Journal of Science of Sintering (**Impact Factor: 0.412**). Vol. 42 (2010) pg. 245-254.

28. **I. Johari**, B. H. A. Bakar, Z. A. Ahmad, S. Said, R. P. Jaya. "Effect of Firing Temperature on the Mechanical Properties of Fired-Clay Brick", Persidangan Kebangsaan ke-5 Kejuruteraan Awam (Awam 09') 27–29 Oktober 2009, Hotel Chorus, Kuala Lumpur.
29. S. Said, B. H. A. Bakar, M. A. M. Johari, **I. Johari**, R. P. Jaya. "Influence of Mineralogy Composition on Properties of Malaysian Fired-clay Brick", Persidangan Kebangsaan ke-5 Kejuruteraan Awam (Awam 09') 27–29 Oktober 2009, Hotel Chorus, Kuala Lumpur.
30. S. Said, B. H. A. Bakar, M. A. M. Johari, **I. Johari**, "Influence of units strength on the deformation behaviour of single-leaf Malaysian fired-clay brickwork", Malaysian Construction Research Journal, (2009), Vol. 5, No. 2, p. 56.
31. **J. Izwan**, A.B. Badorul Hisham and A. Zainal Arifin. "Sintering Effect on Microstructure of Fired-clay Brick Containing Rice Husk Ash", Malaysia Journal of Microscopy, Vol. 4 (2008) pg. 74-79.

## [ii] BOOKS

Book Bridging Technologies Towards Sustainability And Humanization - Awam International Conference on Civil Engineering (AICCE'12) Geohazard Information Zonation (GIZ'12) Park Royal Penang Resort 28th – 30th August 2012 ISBN 978-967-0167-09-1

Book Compendium Of Research Summary - Awam International Conference on Civil Engineering (AICCE'12) Geohazard Information Zonation (GIZ'12) Park Royal Penang Resort 28th – 30th August 2012 ISBN 978-967-0167-09-1

## 5. CONSULTANCY:

- |      |   |
|------|---|
| 2019 | Point Load Testing on Brass Barb for client Usains Biomics Laboratory Testing Services Sdn Bhd (RM6000.00)  |
|      | Determination of wood chip water absorption test for client Usains Biomics Laboratory Testing Services Sdn Bhd (RM450.00)   |
| 2018 | Chemical Capsule Pull Out Test for client AGCO GSI ASIA SDN BHD 717658 Plot 92, LPBM 11, Taman Perindustrian Bukit Minyak, 14100 Bukit Minyak, Sbg Perai Tengah (RM1643.00) |
| 2017 | Bending Steel Test - for client Indah Serumpun Sdn Bhd (RM992.20)   |
|      | Standard Consistency & Setting Time of Cement, Fadzill Construction Sdn Bhd, RM530.00   |
|      | Concrete Cube Compression Test, Chin Hin Concrete (NORTH) SDN BHD, RM95.40  |
|      | Concrete Cube Compression Test, Patcorp Sdn Bhd, RM95.40  |
|      | Cube Compressive Strength Test - for client Heavenly Land Sdn Bhd (RM265.00)  |
|      | Concrete Cube Compression Test, BD Eng. Sdn. Bhd., RM95.40  |
|      | Concrete Cube and Bricks Compressive Strength Test- for client Fajar Eratimur Sdn Bhd (RM848.00)  |
|      | Cube Compressive Strength Test - for client Lataran Nilam Sdn. bhd. (RM190.80)  |
|      | Cube Compressive Strength Test - for client Better Power Sdn. bhd. (RM667.80)   |

	Standard consistency and Setting time of cement Test - for client Fadzill Const. Sdn. Bhd. (RM1060.00)
	UPV Testing on Beam (L3TB1 & L3TB2) - for client Builtech project management Sdn. Bhd. (RM6784.00)
	Tensile Steel Test - for client Langkah Wawasan Ent. (RM1494.60)
2016	Testing of Precast Beams for client AGCO GSI ASIA SDN BHD 717658 Plot 92, LPBM 11, Taman Perindustrian Bukit Minyak, 14100 Bukit Minyak, Sbg Perai Tengah (RM2120.00)
	Compressive Strength Test: Conventional Beam and Column IBS - Concrete Masonry Unit (CMU) - Beam and Column for client Jesin Construction Sdn. Bhd. No. 26 & 27, Jalan Petani, 08000 Sungai Petani, Kedah (RM5300.00)
	Manhole Cover Capacity Test – for client Project Prima - Jlv Sdn Bhd (Rm689.00)
	Manhole Cover Capacity Test - for client Project Prima - Sunset Villa Sdn Bhd (Rm689.00)
	Upv Testing On Trapezoidal Column - for client Econpile (M) Sdn. Bhd. (Rm869.20)
	Cube Compressive Strength Test - for client Wajah Bina Enterprise (RM254.40)
	Cube Compressive Strength Test and Bricks Compressive Strength Test - for client DCS Construction SDN BHD (RM190.80)
	Cube Compressive Strength Test - for client Niaman Construction (RM699.60)
	Cube Compressive Strength Test - for client North Point Construction Sdn Bhd (Rm212.00)
	Bending Steel Test - for client Iris Corporation Berhad (RM890.40)
	Cube Compressive Strength Test - for client Hafiz Engineering Construction
	Cube Compressive Strength Test - for client Sunset Villa Sdn Bhd
2015	Kajian Penilaian Struktur Di Pasar Besar Tanah Merah Untuk Majlis Daerah Tanah Merah 17500 Tanah Merah Kelantan (RM23237.20)

## 6. MEMBER IN PROFESSIONAL / ACADEMIC ASSOCIATIONS / UNIVERSITI

Year	Description
2019	Corporate Membership of The Institution of Engineers Malaysia (IEM) Members of International Association of Engineers (IAENG) Technical Committee Member of Malaysian Timber Industry Board (MTIB) Committee Member of Post Graduate and Research (Civil Engineering USM) Fire and Safety Officer for School of Civil Engineering USM Committee member of Library USM Engineering Campus Fellow of USM Entrepreneurship
2018	Members of International Association of Engineers (IAENG) Technical Committee Member of Malaysian Timber Industry Board (MTIB) Fire and Safety Officer for School of Civil Engineering USM Fellow of USM Entrepreneurship

2017	Technical Committee Member of Malaysian Timber Industry Board (MTIB) Fellow of USM Entrepreneurship
2016	Technical Committee Member of Malaysian Timber Industry Board (MTIB) Fellow of USM Entrepreneurship Coordinator of ASENET Program (international)
2015	Comittee Member Of Malaysian Structural Steel Association (Mssa) Fellow of USM Entrepreneurship
2014	Fellow of USM Entrepreneurship Comittee Member Of Malaysian Structural Steel Association (Mssa) Fellow of USM Entrepreneurship Chairman of the USM Student Cooperative for Engineering Campus (KOSISWA)
2013	Comittee Member Of Malaysian Structural Steel Association (Mssa) Chairman of the USM Student Cooperative for Engineering Campus (KOSISWA)

## 7. TEACHINGS

Year	Subjects
2011	EAA 110/2 Civil Engineering Drawing SHE 101/2 Ethnic Relationship EAA 203/2 Structural Engineering, Concrete, & Fluid Mechanics EAA 204/2 Structures & Strength of Materials Laboratory EAA 273/2 Civil Engineering Practice EAA 384/2 Construction Technology EAA 393/2 Computation and Problem Solving for Civil Engineering EAA 492 Final Year Project EAS 664/4 Principle of Structural Design EAS 665/4 Bridge Engineering
2012	SHE 101/2 Ethnic Relationship EAS 181/2 Concrete Technology EAA 203/2 Structural Engineering, Concrete, & Fluid Mechanics EAA 204/2 Structures & Strength of Materials Laboratory EAA 273/2 Civil Engineering Practice EAA 384/2 Construction Technology EAA 371 Industrial Training EAA 393/2 Computation and Problem Solving for Civil Engineering EAA 492 Final Year Project EAS 662/4 Structural Retrofitting Technology EAS 664/4 Principle of Structural Design EAS 665/4 Bridge Engineering

2013

- SHE 101/2 Ethnic Relationship
- EAS 181/2 Concrete Technology
- EAA 203/2 Structural Engineering, Concrete, & Fluid Mechanics
- EAA 204/2 Structures & Strength of Materials Laboratory
- EAA 273/2 Civil Engineering Practice
- EAS 354/3 Steel And Timber Structural Design
- EAA 384/2 Construction Technology
- EAA 371 Industrial Training
- EAA 393/2 Computation and Problem Solving for Civil Engineering
- EAA 492 Final Year Project
- EAS 662/4 Structural Retrofitting Technology
- EAS 665/4 Bridge Engineering

2014

- SHE 101/2 Ethnic Relationship
- WUS 101/2 Entrepreneurship
- EAA 153/2 Civil Engineering Materials
- EAA 203/2 Structural Engineering, Concrete, & Fluid Mechanics
- EAA 204/2 Structures & Strength of Materials Laboratory
- EAA 273/2 Civil Engineering Practice
- EAS 353/3 RC DESIGN 1 (Code of Practice BS8110-1997a)
- EAS 354/3 Steel And Timber Structural Design
- EAA 384/2 Construction Technology
- EAA 371 Industrial Training
- EAA 393/2 Computation and Problem Solving for Civil Engineering
- EAA 492 Final Year Project
- EAA 493/3 Integrated Design
- EAS 662/4 Structural Retrofitting Technology
- EAS 665/4 Bridge Engineering

2015

- WUS 101/2 Entrepreneurship
- EAA 153/2 Civil Engineering Materials
- EAA 203/2 Structural Engineering, Concrete, & Fluid Mechanics
- EAA 204/2 Structures & Strength of Materials Laboratory
- EAA 273/2 Civil Engineering Practice
- EAA 384/2 Construction Technology
- EAA 371 Industrial Training
- EAA 393/2 Computation and Problem Solving for Civil Engineering
- EAA 492 Final Year Project
- EAA 493/3 Integrated Design
- EAS 662/4 Structural Retrofitting Technology

2016

- WUS 101/2 Entrepreneurship
- EAA 153/2 Civil Engineering Materials
- EAA 206/2 Structural Engineering, Concrete, & Fluid Mechanics
- EAA 204/2 Structures & Strength of Materials Laboratory
- EAA 273/2 Civil Engineering Practice
- EAA 384/2 Construction Technology
- EAA 371 Industrial Training
- EAA 393/2 Computation and Problem Solving for Civil Engineering
- EAA 492 Final Year Project
- EAA 493/3 Integrated Design
- EAS 605 Dissertation
- EAS 662/4 Structural Retrofitting Technology

2017  
WUS 101/2 Entrepreneurship  
EAA 153/2 Civil Engineering Materials  
EAA 206/2 Structural Engineering, Concrete, & Fluid Mechanics  
EAA 204/2 Structures & Strength of Materials Laboratory  
EAA 273/2 Civil Engineering Practice  
EAS 358/2 Timber and Masonry Engineering  
EAA 371 Industrial Training  
EAA 493/3 Integrated Design  
EAA 492 Final Year Project  
EAS 605 Dissertation  
EAS 662/4 Structural Retrofitting Technology

2018  
SHE 101/2 Ethnic Relationship  
WUS 101/2 Entrepreneurship  
EAA 153/2 Civil Engineering Materials  
EAA 206/2 Structural Engineering, Concrete, & Fluid Mechanics  
EAA 204/2 Structures & Strength of Materials Laboratory  
EAA 273/2 Civil Engineering Practice  
EAS 451/2 Timber and Masonry Engineering  
EAA 371 Industrial Training  
EAA 493/3 Integrated Design  
EAA 492 Final Year Project  
EAS 605 Dissertation  
EAS 662/4 Structural Retrofitting Technology

2019  
SHE 101/2 Ethnic Relationship  
WUS 101/2 Entrepreneurship  
EAA 153/2 Civil Engineering Materials  
EAA 206/2 Structural Engineering, Concrete, & Fluid Mechanics  
EAA 204/2 Structures & Strength of Materials Laboratory  
EAA 273/2 Civil Engineering Practice  
EAS 451/2 Timber and Masonry Engineering  
EAA 371 Industrial Training  
EAA 493/3 Integrated Design  
EAA 492 Final Year Project  
EAS 605 Dissertation  
EAS 662/4 Structural Retrofitting Technology

## 8. REFEREE

1. Professor Dr. Taksiah A. Majid  
School of Civil Engineering, Engineering Campus, Universiti Sains Malaysia,  
14300 Nibong Tebal, Penang, Malaysia  
Office 045996201 ; H/P 0125072267  
email taksiah@usm.my
2. Professor Dr Zainal Arifin Bin Ahmad  
School of Materials and Mineral Resources Engineering,  
Engineering Campus, Universiti Sains Malaysia,  
14300 Nibong Tebal, Penang, Malaysia  
Office 045996128 ; H/P 0126671736  
email srzainal@usm.my