



### CURRICULUM VITAE



<b>I. PERSONAL PARTICULARS</b>			
<b>Name</b>	<b>Major Dr Vikneswaran a/l Munikanan</b>		
<b>Current Position Faculty / Department</b>	<b>Senior Lecturer Faculty of Engineering</b>		
<b>II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS</b>			
<i>(Please list all academic qualifications, from your first degree, in chronological order)</i>			
<b>Year</b>	<b>Degree</b>	<b>Discipline</b>	<b>University</b>
2000	BEng (Hons)	Civil-Environmental	UTM
2003	MEng	Environmental Management	UTM
2012	EngD	Construction Technology and Management	UTM

<b>III. TITLES OF POSTGRADUATE THESES WRITTEN</b>			
<b>No.</b>	<b>TITLES OF POSTGRADUATE THESES</b>		
<b>1.</b>	<b>River Rehabilitation of Sungai Segget</b>		
<b>2.</b>	<b>Sustainable Neighbourhood Elements for Urban Neighbourhood Planning and Design</b>		
<b>IV. WORK EXPERIENCE (Please list your relevant experience in chronological order)</b>			
<b>Year</b>	<b>Position</b>	<b>Field of Work</b>	<b>Place of Work</b>
2000	Sales Executive	Marketing	Johor Bharu, Johor
2000-2001	Site Engineer	Civil Engineering	Puchong, Selangor
2001-2003	Research Assistant	Research	UTM, Johor
2003-2004	Engineer Staff Officer	Civil Engineering (Design)	MINDEF, KL
<b>2004-2007</b>	<b>Lecturer</b>	<b>Lecturing and Research</b>	<b>ATMA/UPNM, KL</b>
2007-2012	Staff Officer 2 (Design)	Civil Engineering (Design)	MINDEF, KL
2012-2014	Project Officer	Civil Engineering (Project)	MINDEF, KL
<b>2014-current</b>	<b>Senior Lecturer</b>	<b>Lecturing and Research</b>	<b>UPNM, KL</b>

## 1.0 TEACHING AND SUPERVISION

### 1.1 Undergraduate Courses

(Please list in chronological order and state: course title, semester and year)

<b>No</b>	<b>Course Title</b>	<b>Semester</b>	<b>Year</b>
1	Environmental Management	1	2004/2005
2	Geology	1	2004/2005
3	Construction Drawing	1	2004/2005
4	Water Treatment	2	2004/2005
5	Highway and Traffic Engineering	2	2004/2005
6	Applied Mechanics	2	2004/2005
7	Environmental Management	1	2005/2006
8	Geology	1	2005/2006
9	Construction Drawing	1	2005/2006
10	Water Treatment	2	2005/2006
11	Highway and Traffic Engineering	2	2005/2006

12	Applied Mechanics	2	2005/2006
13	Environmental Management	1	2006/2007
14	Geology	1	2006/2007
15	Construction Drawing	1	2006/2007
16	Water Treatment	2	2006/2007
17	Highway and Traffic Engineering	2	2006/2007
18	Applied Mechanics	2	2006/2007
19	Applied Mechanics	1	2014/2015
20	Engineers in Community and Ethics	1	2014/2015
21	Applied Mechanics	2	2014/2015
22	Water Supply and Sewerage	2	2014/2015
23	Mechanic of Material	1	2015/2016
24	Environmental Engineering	1	2015/2016
25	Mechanic of Material	2	2015/2016
26	Water Supply and Sewerage	2	2015/2016
27	Reinforce Concrete Design	1	2016/2017
28	Nuclear, Biological and Nuclear Contamination	1	2016/2017
29	Engineers in Community and Ethics	2	2016/2017
30	Nuclear, Biological and Nuclear Contamination	2	2016/2017
31	Reinforce Concrete Design	1	2017/2018
32	Nuclear, Biological and Nuclear Contamination	1	2017/2018

## 1.2 Ph.D Supervision

(Please list in chronological order and state: name of student, year project title and status)

No	Name of Student	Project Title	Year	Role (Main / Co-Supervision)	Status • Completed • Submitted • In Progress	University
1	Noraziah binti Wahi (pka 1430222020-11)	Cost Optimization model for sustainable low cost housing	2015	Co-Supervision	Completed	UTM

		neighbourhood in Malaysia				
2	Muhamad Azani bin Yahya (145-07)	Achieving Rapid construction Using Lean Principles for Sustainable Building Construction	2016	<b>Co-Supervision</b>	In Progress	UPNM
3	Nur Ainina binti Mustafa	Environmental Performance Assessment of the Hotel Industry using Green Hotel Assessment Tools	2017	<b>Main</b>	In Progress	UPNM

### 1.3 Supervision (Coursework and Project)

(Please list in chronological order and state: name of student, year, project title and status)

No	Name of Student	Project Title	Year	Role (Main / Co-Supervision)	Status • Completed • Submitted • In Progress	University
1	Mohd Shahid B. Mohd Dahlan	Engineering Properties Of Resin Base Repairing Materials	2004 / 2005	<b>Main</b>	Completed	UPNM
2	Mohd Zaid B. Abdullah	Functional Properties Of Resin Base Repairing Materials	2005 / 2005	<b>Main</b>	Completed	UPNM
3	Muhammad Ishak B. Muhammad Noor	A Case Study On Application Of Resin Base Repairing Material In Crack Rehabilitation	2005 / 2005	<b>Main</b>	Completed	UPNM
4	Dzairul Helmy B. Mohd. Daud	Epoksi dan grout sebagai bahan pembaikpulihan	2005 / 2006	<b>Main</b>	Completed	UPNM
5	Ooi Jean Yean	Issues of Sustainability in Structural Design	2014 / 2015	<b>Main</b>	Completed	UPNM
6	Mohamad Zakuan Bin Abdul Razak	Study on open space elements for sustainable UPNM campus	2014 / 2015	<b>Main</b>	Completed	UPNM

7	Akmal Hakim Bin Abdul Halim	Design of long span beam – Evaluating the best material for the purpose	2014 / 2015	Main	Completed	UPNM
8	Rabiatul Adawiyah Binti Ahmad Raffiee	Comparison the Performance of Polystyrene Beads in Plastering in Clay Brick and Sand Brick as Heat Retarder	2015 / 2016	Main	Completed	UPNM
9	Siti Nor Kamariah Bt Ismail	Emergency Field water Supply System for Military Unit	2015 / 2016	Main	Completed	UPNM
10	Pkdt Muadz Bin Azhar	Open Space Surface Runoff Harvesting For Sustainable UPNM Campus	2015 / 2016	Main	Completed	UPNM
11	Pkdt Izzat Amir bin Md Isnin	Structural improvisation for helicopter landing in disaster prone area.	2016 / 2017	Main	Completed	UPNM
12	Muhammad Haris Fauzan bin Radzi	Shredding waste tyre for road curb application as improvised road furniture.	2016 / 2017	Main	Completed	UPNM
13	Kuganeswaran A/L Chandran	Glow in the dark signage implementation in disaster relief centres.	2016 / 2017	Main	Completed	UPNM
14	Muhammad Khairun Redza bin Fadzil	Characteristic of glow in the dark powder application as road line material.	2017 / 2018	Main	Completed	UPNM
15	Florence Lim Jing Eng	Catchment Management and Water Source Protection of UPNM Campus.	2017 / 2018	Main	Completed	UPNM
16	Muhammad Sharizam bin Rozira	Characteristic of shredding waste tyre for road curb application as improvised road furniture.	2017 / 2018	Main	Completed	UPNM

### 1.4 M.Sc (by Research)

(Please list in chronological order and state: name of student, year, project title and status)

No	Name of Student	Project Title	Year	Role (Main / Co-Supervision)	Status • Completed • Submitted • In Progress	University
1	Mej Ir Zurina binti Abdul Hamid	Mitigation of Delay In Malaysian Armed Forces Construction Projects Based On Jkr 203a Condition Of Contract	2018	Main	In Progress	UPNM
2	Mohd Rohaide bin Zulkiffle	An Analysis of The Impact of Variation Order on Project Performance: Case Study at Universiti Pertahanan Nasional Malaysia	2018	Co-Supervision	In Progress	UPNM
3	Zolkeplee bin Basir@Daim	An Assessment of Delay in The Project Performance: Case Study at Universiti Pertahanan Nasional Malaysia	2018	Co-Supervision	In Progress	UPNM
4	Santy Anak Langie	Investigation on Sustainable Rural Road Elements for Socio-Economic Benefits	2019	Main	In Progress	UPNM

## 2.0 RESEARCH AND PUBLICATION

### 2.1 Research Projects

(Please list in chronological order and state: title, list of researchers, grant/year, source/amount, date/duration and status) (Please bold your name)

No	Title	List of Rresearchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
1	Study on Pollution Prevention & Water Quality Improvement Program of Sg. Segget and Sg. Tebrau	Member	2001	RM 2 Mil	Completed
2	Study on Blast Impact	Member	2004	RM 30,000.00	Completed
3	Characteristic of Rapid Soft Soil Stabilization using Polymer Resin to Support Heavy Load Vehicles	Principal	1 Jan 15 – 31 Dis 15	RM 28,954.50	Completed
4	Bioterrorism Readiness Plan for Malaysian Environment – A Review of Training Policy (UPNM/2015/GPJP/SSI/1)	Principal	1 Ogos 15 – 31 Jul 16	RM 5,000.00	Completed
5	Signage Implementation And Structural Enhancement For Emergency Rooftop Helicopter Landing In Disaster Prone Area. (RAGS/1/2015/TK01/UPNM /02/1)	Principal	1 Dis 15 – 30 Aug 17	RM 30,000.00	Completed
6	Determination of Plastic Explosive Equivalent of Commercial Explosive for the Usage in Military Application (FRGS/2/2014/TK04UPNM/02/1)	Member	1 Dec 2014 – 30 Nov 2016	RM 190,000.00	Completed

No	Title	List of Rresearchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
7	Particle Bonding Theory of Liquid Sludge through Electrostatic Interaction by Waste Paper Sludge Ash (WPSA) (Ref: FRGS/1/2016/TK10/UITM/02/9)	Member	1 Aug 2016 – 31 Jul 2018	RM 98,000.00	In Progress
8	Usage of Micro Synthetic Fibers in Concrete For Blast Loading (UPNM/2016/GPJP/3/TK/2)	Member	1 Jul 2016 – 30 Jun 2018	RM 20,000	In Progress
9	A Novel Approach for Theoretical Finding of Root Cause and Generation Rate of Construction Waste in Malaysian Construction Industry (FRGS/1/2017/TK06/UTHM/02/4)	Member	15 Aug 2017 – 15 Jul 2019	RM 51,000	In Progress
10	Innovating An Escape Device From Second/Third Floor Window Of Linked House Incorporating Training Drill Program For Fire Escape (UPNM/2018/GPJP/TK/B)	Member	1 Apr 2018 – 31 Mac 2020	RM 20,000.00	In Progress
11	Civil Engineering Structural and Infrastructural Design of Wave Energy Converter Project (UPNM/2018/AAIBE-KeTTHA/TK/1)	Principal for Civil Cluster	1 Jun 2018 – 31 Mei 2020	1,048,400.00	In Progress



## 2.2 Publications

### 2.2.1 Invited/Keynote Papers/Presentation

(Please list in chronological order and state: authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name))

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level • International • National • University
1	<b>M.Vikneswaran</b> , Zaini Ujang (2002). Rehabilitation of Sanitation Program in Sg. Segget Catchment, Malaysian Science and Technology Congress 2002 (MSTC), Ministry of Science, Technology and Environment Malaysia (MOSTE), Confederation of Science and Technological Association in Malaysia (COSTAM).	National
2	Norazman M Nor, Ariffin Ismail, Aminudin Saat, Mohd Asri Md Nor, & <b>Vikneswaran Munikanan</b> . (2005). "Physical Responses to Blast Impact", <i>Proc., International Conference in Defence Technology 2005</i> , Putrajaya, Malaysia, 1 Dec 2005.	International
3	Norazman M Nor, Ariffin Ismail, Aminudin Saat, Mohd Asri Md Nor, <b>Vikneswaran Munikanan</b> & Mohd Rizam Zulkifli (2006). "Study of Blast Impact on Concrete Specimen", <i>Proc., 9th International Conference on Concrete Engineering and Technology (unbinded)</i> , Selangor, Malaysia, 10 Mei 2006.	International
4	<b>M. Vikneswaran</b> (2007). Sustainable Development Profile of Malaysia, Presented in Civil Engineering Seminar, National Defense University of Malaysia, Engineering Department, National Defense University of Malaysia.	University
5	Mohd Ismid Mohd Said , Rozana Zakaria , <b>M.Vikneswaran</b> (2008). Sustainable Neighbourhood in Malaysia, International Conference and Expo on Environmental Management and Technologies (ICEEMAT'08), PWTC, Kuala Lumpur, 10th – 12th December 2008, Institute of Environmental and Water Resource Management, UTM, Skudai, Johor.	International
6	<b>M.Vikneswaran</b> , Asso. Prof. Dr Mohd Ismid Mohd Said, Dr Rozana Zakaria (2008). Adaptation of Sustainable Living Concept in Malaysia, International Graduate Conference on Engineering and Science (IGCES), Universiti teknologi Malaysia, Skudai, Johor, 24 – 25 December 2008, School of Graduate Studies, UTM.	International

7	<b>M.Vikneswaran</b> , Mohd Ismid Mohd Said & Rozana Zakaria (2010). Implementation of Sustainable Neighbourhood Elements (SNEs) Model in Malaysian Neighbourhood Planning System 15th International Symposium on "Advancement of Construction Management and Real Estate : Towards Sustainable Development of International Metropolis", 6 - 7 August 2010, Thistle, JB.	International
8	Mohd Ismid Mohd Said, Rozana Zakaria, <b>M.Vikneswaran</b> (2009). The Elements of Sustainable Urban Neighbourhood Design. 7 <sup>th</sup> Asia Pacific Structural Engineering and Construction Conference 2009 (APSEC 2009) & The 2 <sup>nd</sup> European Asean Civil Engineering Forum (EACEF'2009), 4 -6 Aug 2009. Awana Porto Malai, Langkawi.	International
9	<b>M. Vikneswaran</b> , Mohd Ismid Mohd Said & Rozana Zakaria (2009). Sustainable Neighbourhood Planning and Design in Malaysia. International Conference on Building Science and Engineering (ICON-BSE 2009). 14 <sup>th</sup> – 15 <sup>th</sup> December 2009. The Puteri Pacific Hotel, Johor Bahru.	International
10	Mohd Ismid Mohd Said, Rozana Zakaria, <b>M.Vikneswaran</b> (2009). Sustainable Living in Malaysia. International Conference on Engineering and Education in the 21 <sup>st</sup> Century (ICEE 2009). 23- 25 March 2009. Crowne Plaza Riverside, Kuching Sarawak.	International
11	<b>M.Vikneswaran</b> , Mohd. IsmidMohd. Said, Rozana Zakaria (2011). Sustainable Neighbourhood Planning and Design in Malaysian Perspective. Hotel Singgahsana, Petaling Jaya, Selangor, National Seminar on Asset and Project Management, 22 November 2011.	International
12	Rozana Zakaria, <b>M.Vikneswaran</b> & Mohd Ismid Mohd Said (2010). Adaptation of Sustainable Neighbourhood Elements (SNEs) in Malaysian Urban Neighbourhood Planning. The 8th International Conference on Construction and Real Estate Management (2010). 1–3 December 2010. Brisbane, Australia.	International
13	Mohd Ismid Mohd Said, Rozana Zakaria, <b>M.Vikneswaran</b> (2011). Sustainable Neighbourhood Adaptation in Malaysia by Elemental Approach. International Conference on Sustainable Development. 5-7 December 2011. Palm Garden Hotel, IOI Resort, Putrajaya, Malaysia.	International
14	<b>M. Vikneswaran</b> , M. Z. Abdul Razak (2015), Study on Surface Runoff Harvesting for Sustainable UPNM Campus. International Journal of	International

	Applied Engineering Research. ISSN 0973-4562 Vol. 10, No. 95. Research India Publication; <a href="http://www.ripublication.com/ijaer.htm">http://www.ripublication.com/ijaer.htm</a>	
15	<b>M. Vikneswaran</b> *, Norazman Mohamad Nor, Ooi Jean Yean (2015). The comparison of thermal resistance between clay brick wall and sand brick wall for Malaysian climate. Journal of Scientific Research and Development. 2 (13): 64-68, 2015. <a href="http://www.jsrad.org">www.jsrad.org</a> ISSN 1115-7569 c 2015 JSRAD. ISI JOURNAL.	International
16	Vikneswaran. M (2015) Bioterrorism Preparedness for Malaysian Environment. J Def Manag 6:138. doi:10.4172/2167-0374.1000138	International
17	Mohammed Alias Yusof, Nahzatul Farhana Najwa , Norazman Mohamad Nor, Ariffin Ismail,, Muhammad Azani Yahya , <b>Vikneswaran Munikanan</b> (2015). Simulation of Laminated Glass Panels Using Polyurethane Resin as an Interlayer (PU) Subjected to Air Blast Loading. Australian Journal of Basic and Applied Sciences. Accepted in december 2015. SCOPUS JOURNAL.	International
18	Mohammed Alias Yusof, Nahzatul Farhana Najwa , Norazman Mohamad Nor, Ariffin Ismail,, Muhammad Azani Yahya , <b>Vikneswaran Munikanan</b> (2015). Behaviour of laminated glass panel using resin subjected to air blast loading. Journal of Scientific Research and Development. <a href="http://www.jsrad.org">www.jsrad.org</a> .- accepted in oktober 2015. – ISI JOURNAL.	International
19	<b>M.Vikneswaran</b> , Norazman, Mohammed Alias & Muhamad Azani (2015). Bioterrorism Readiness for Malaysian Environment. 7 <sup>th</sup> International Conference on Humanities and Social Sciences “ASEAN 2015: Challenges and Opportunities”. Songkla, Thailand.	International
20	<b>M.Vikneswaran</b> , Zuhairi Ariffin Assan & Norizan Abdul Majid (2016). Preparations To Terrorist Chemical Weapons Threats: From Malaysian Perspective. 8th International Conference on Humanities and Social Sciences (ICHiSS) 2016 “Innovation in Humanities and Social Sciences: Opportunities and Challenges”. Damansara, Selangor.	International
21	<b>M.Vikneswaran</b> (2016). Contribution of R&D to Innovative CBRNe Capability Building in Malaysia. NCT: EXPLOSIVE ASIA 2016. 8 – 10 November 2016, Le Meridien Hotel, Kuala Lumpur.	International
22	<b>M.Vikneswaran</b> (2016). Preparations To Terrorist Chemical Weapons Threats: From Malaysian Perspective. CBRNe Summit Asia 2016. 5 – 7 Dec 2016. Hanoi, Vietnam.	International

23	<b>M.Vikneswaran</b> (2017). Chemical Weapon Types And Protection. Chemical Weapon Threats And Surveillance 2017 Seminar. 22 Aug 2017. UPNM, Kuala Lumpur.	National
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### 2.2.2 Book/Chapter in Book:

(Please list in chronological order and state: authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name))

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
1	Title : Issues in construction Industry Article : Sustainable Neighbourhood in Malaysia Authors : <b>M.Vikneswaran</b> , Mohd. IsmidMohd. Said, Rozana Zakaria Editor : Mohamad Ibrahim Mohamad Publisher : Universiti Teknologi Malaysia Year : 2008 Page : pp 68 – 87 ISBN : 978-983-52-0568-2	Universiti Teknologi Malaysia
2	Title : Emerging Issues on Sustainable Urban Development Article : The Elements of Sustainable Urban Neighborhood Design Authors : Mohd Ismid Bin Mohd Said, Rozana Zakaria , <b>Vikneswaran A / I Munikanan</b> Publisher : LAP LAMBERT Academic Publishing Year : 2013 Page : pp 31 – 48 ISBN : 3659609218	International
3	Title : Emerging Issues on Sustainable Urban Development Article : Adaptation of Sustainable Neighborhood Elements (SNEs) in Malaysia Urban Neighborhood Planning. Authors : Rozana Zakaria , Mohd Ismid Bin Mohd Said, <b>Vikneswaran A / I Munikanan</b> Publisher : LAP LAMBERT Academic Publishing Year : 2013 Page : pp 46 – 66 ISBN : 978-3659609213	International

4	Title : Travelog Cendekia Sedekad di UPNM Article : Transformasi Seorang Pegawai Tentera Authors : <b>M.Vikneswaran</b> Editor : PM Dr Hassan A-Banna bin Mohamed Publisher : Universiti Pertahanan Nasional Malaysia Year : 2017 Page : pp 161 – 170 ISBN : 967-0000-00-0	Universiti Pertahanan Nasional Malaysia
5	Title : Advances in Energy Science and Equipment Engineering Position : Technical Program Committee : Dr <b>Vikneswaran Munikanan</b> Editor : Bachir Achour & Qiyan Wu Publisher : CRC Press – Taylor & Francis Group Year : 2017 Page : XI ISBN : 978-1-138-62682-9	International
6	Title : Advances in Energy Science and Equipment Engineering II Article : Surface runoff harvesting in redirecting sustainable water conditions in the UPNM campus Authors : <b>M.Vikneswaran</b> & M. Azhar Editor : Shiquan Zhou, Aragona Patty & Shiming Chen Publisher : CRC Press – Taylor & Francis Group Year : 2017 Page : pp 89 – 94 ISBN : 978-1-138-71798-5	International

### 2.2.3 Journal Article

(Please list in chronological order and state: authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name))

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
1	<b>Vikneswaran, M.</b> and Mohd. Said, Mohd. Ismid and Zakaria, Rozana (2010) Adaptation of sustainable neighbourhood elements in	International

	neighbourhood planning and design. Malaysian Journal of Civil Engineering, 22 (1). pp. 171-185. ISSN 1823-7843	
2	<b>M.Vikneswaran</b> , Mohd. Ismid Mohd. Said, Rozana Zakaria (2011). Sustainable Neighbourhood Adaptation in Malaysia by Elemental Approach. OIDA International Journal of Sustainable Development. ISSN 1923-6654 (print) 1923-6662 (online).	International
3	Rozana Zakaria, <b>Vikneswaran Munikanan</b> , Mohd Ismid Mohd Said, Muhd Zaimi Abd Majid, Choo Kok Wah and Md Rajuna Ahmad Shakri (2012). Sustainable Neighbourhood Elements Model (SNEs Model). Advance Science Letters (IF= 1.253). Vol. 15, 113–116 (2012).	International
4	Rozana Zakaria ; <b>M. Vikneswaran</b> ; Mohd Ismid Mohd Said ; Abd Latif Saleh ; Mushairry Mustaffar (2012). Sustainable Neighbourhood Planning and Design in Malaysian Perspective. Applied Mechanics and Materials. Vols. 209-211 (2012) pp 1690-1693 © (2012) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMM.209-211.1690	International
5	Rozana Zakaria, <b>M.Vikneswaran</b> , Mohd. Ismid Mohd. Said (2012). Sustainable Neighbourhood Profile of Malaysia: The Past and Present. OIDA International Journal of Sustainable Development. ISSN 1923-6654 (print) 1923-6662 (online).	International
6	Md. Said, Mohd. Ismid and Zakaria, Rozana and <b>Vikneswaran, M.</b> (2012). Adaptation Of Sustainable Neighbourhood Elements (SNES) In Malaysian Urban Neighbourhood Planning. Ultra Engineer. 1 (1). pp. 7-19. ISSN 2319-7161 (Print).	International
7	<b>Vikneswaran, M.</b> and Zakaria, Rozana and Mohd. Said, Mohd. Ismid (2010). Indoor Environment Sustainable Neighbourhood Planning And Design. Malaysian Journal of Civil Engineering, 21 (1). pp. 98-109. ISSN 1823-7843.	National
8	<b>M. Vikneswaran</b> , M. Z. Abdul Razak (2015), Study on Surface Runoff Harvesting for Sustainable UPNM Campus. International Journal of Applied Engineering Research. ISSN 0973-4562 Vol. 10, No. 95. Research India Publication; <a href="http://www.ripublication.com/ijaer.htm">http://www.ripublication.com/ijaer.htm</a>	International
9	<b>M. Vikneswaran</b> *, Norazman Mohamad Nor, Ooi Jean Yean (2015). The comparison of thermal resistance between clay brick wall and sand brick wall for Malaysian climate. Journal of Scientific Research and Development 2 (13): 64-68, 2015. <a href="http://www.jsrad.org">www.jsrad.org</a> ISSN 1115-7569	International

10	<b>M. Vikneswaran</b> (2015). Bioterrorism Preparedness for Malaysian Environment. J Def Manag 6: 138. doi:10.4172/2167-0374.1000138	International
11	Mohammed Alias Yusof, Nahzatul Farhana Najwa , Norazman Mohamad Nor, Ariffin Ismail, Muhammad Azani Yahya , <b>Vikneswaran Munikanan</b> (2015). Behaviour of laminated glass panel using resin subjected to air blast loading. Journal of Scientific Research and Development 2 (14): 14-18. ISSN 1115-7569.	
12	Mohammed Alias Yusof, Nahzatul Farhana Najwa , Norazman Mohamad Nor, Ariffin Ismail,, Muhammad Azani Yahya , <b>Vikneswaran Munikanan</b> (2016). Simulation of Laminated Glass Panels Using Polyurethane Resin as an Interlayer (PU) Subjected to Air Blast Loading. Sci. Int. (Lahore), 28(4), 3287-3291. ISSN 1013-5316.	International
13	<b>M.Vikneswaran</b> , Norizan Abdul Majid and Zuhairree Ariffin Assan (2016). Preparations to Terrorist Chemical Weapons Threats: From Malaysian Perspective. GLOBAL JOURNAL AL-THAQFAH (GJAT), indexed by SCOPUS. ISSN (print): 2232-0474, E-ISSN (online): 2232-0482	International
14	Muhamad Azani Yahya, <b>Vikneswaran Munikanan</b> , Mohammed Alias Yusof (2016). Innovation in Lean Thinking to Achieve Rapid Construction. International Journal of Civil and Environmental Engineering. 10(11).	International
15	<b>M.Vikneswaran</b> and N.A.Majid (2017). The Effect of O-Chlorobenxylidene Malononitrite (CS) to Military Personals Healthfuring NBC Training. Journal of Fundamental and Applied Sciences. Vol 9, Special Issue 3, ISSN 1112-9867. <a href="http://www.jfas.info">www.jfas.info</a>	International
16	N. M. Nor, M. A. A. Ghazali, M. Z. Ahmad, M. A. Yusof, <b>M. Vikneswaran</b> and M. A. Yahya (2017). Revisiting High Strength Concrete using Common Admixtures. Journal of Fundamental and Applied Sciences. Vol 9, Special Issue 3, ISSN 1112-9867. <a href="http://www.jfas.info">www.jfas.info</a>	International
17	Nur IzieAdiana Abidin, Rozana Zakaria, Eeydzah Aminuddin, Chai Chang Sasr, <b>Vikneswaran Munikanan</b> , Irina Safitri, Masalah Bandi (2017). Malaysia's Local Agenda 21: Implementation and Approach in Kuala Lumpur, Selangor and Johor Bahru. IIOAB Journal, Vol. 7, Suppl 1, 554-562. <a href="http://www.iioab.org">www.iioab.org</a>	International
18	Norhasilya Mohd Daud, Norazman Mohamad Nor, Umi Nadiah Nor Ali, Mohammed Alias Yusuf and <b>Vikneswaran Munikanan</b> (2017). Affordable Housing System: A review on Issue of Housing Affordability. The Social Sciences. 12(7): 1281-1287. ISSN: 1818-5800. Medwell Journals.	International

19	Muhamad Azani Yahya, Umi Nadiyah Nor Ali, Mohammed Alias Yusof, Norazman Mohamad Nor, <b>Vikneswaran Munikanan</b> (2017). Waterproofing Agent in Concrete for Tensile Improvement. International Journal of Civil and Environmental Engineering, 11(1). dai.waset.org/1307-6892/58331.	International
20	Muhamad Azani Yahya, <b>Vikneswaran Munikanan</b> , Mohammed Alias Yusof (2017). Achieving Sustainable Rapid Construction Using Lean Principles. International Journal of Economics and Management Engineering, 11, (5). dai.waset.org/1307-6892/58597.	International
21	<b>Vikneswaran Munikanan</b> , Ananthan Subramaniam, Wong Wai Loong, Muhamad Azani Yahya, Mohammed Alias Yusof and Rabiatul Adawiyah Ahmad Raffiee (2018). The Implementation of Signage as the Tool Guide in Intelligent Transportation System for Disaster Relief Centers during Flood Disaster in Malaysia. International Journal of Business and Management, 2 (1): 58-66. e-ISSN: 2590-3721, RMP Publications, DOI: 10.26666/rmp.ijbm.2018.1.10	International
22	<b>M. Vikneswaran</b> , Rabiatul Adawiyah Ahmad Raffiee, Mohammed Alias Yusof, Muhamad Azani Yahya, S.Ananthan Subramaniam, Wong Wai Loong, Maidiana Othman, and Jessica Galerial (2018). Implementation Of Safety Signage To Ease Transportation System In Disaster Prone Area. International Conference on Engineering and Technology (IntCET 2017). AIP Conf. Proc. 1930, 020060-1–020060-6; <a href="https://doi.org/10.1063/1.5022954">https://doi.org/10.1063/1.5022954</a>	International
23	Noraziah Wahi, Ismail Mohamad, Rosli Mohamad Zin, <b>Vikneswaran Munikanan</b> , Syahrizan Junaini (2018). The High Rise Low Cost Housing: Sustainable Neighbourhood Elements (Green Elements) in Malaysia. IOP Conf. Series: Materials Science and Engineering 341 012028 doi:10.1088/1757-899X/341/1/012028.	International
24	Noraziah Wahi, Rosli Mohamad Zin, <b>Vikneswaran Munikanan</b> , Ismail Mohamad, Syahrizan Junaini (2018). Problems and Issues of High Rise Low Cost Housing in Malaysia. IOP Conf. Series: Materials Science and Engineering 341 (2018) 012027 doi:10.1088/1757-899X/341/1/012027	International
25	Mohammed Alias Yusof, Norazman Mohamad Nor, Muhammad Azani Yahya, <b>Vikneswaran Munikanan</b> and Ariffin Ismail (2018). Simulation of Explosive Storage Building Subjected to Explosion. International Journal of Engineering & Technology, 7 (4.33) (2018) 294-298.	International
26	Mohammed Alias Yusof, Norazman Mohamad Nor, Muhammad Azani Yahya, <b>Vikneswaran Munikanan</b> and Ariffin Ismail (2018). Simulation	International



	on Concrete Structure Demolition using Explosive Method. International Journal of Engineering & Technology, 7 (3.7) (2018) 403-406.	
27	Maidiana Othman, Muhammad Ibnu Syawal, Nur Afiqah Samsudin, Zuliziana Suif, Nordila Ahmad, <b>Vikneswaran Munikanan</b> , Mohd Asri Md Nor, Muhammad Azani Yahya (2018). Pilot-scale of Constructed Wetland for Treating Stormwater in University Campus. International Journal of Engineering & Technology, 7 (4.33) (2018) 460-462.	International
28	Muhamad Azani Yahya, Atiq Farwiz Marukhi, Mohammed Alias Yusof, <b>Vikneswaran Munikanan</b> , Norazman Mohd. Nor, Ariffin Ismail (2018). High Tensile Bollard Using Macro Synthetic Fiber for Building Protection. International Journal of Engineering & Technology, 7 (4.33) (2018) 357-361.	International
29	<b>M. Vikneswaran</b> , Muhamad Azani Yahya, Mohammed Alias Yusof and Siti Nor Kamariah Ismail (2018). Emergency Field Water Supply System Using Natural Filtration Elements. AIP Conf. Proc. 1930, 020062-1–020062-11; <a href="https://doi.org/10.1063/1.5022956">https://doi.org/10.1063/1.5022956</a>	International
30	<b>Vikneswaran Munikanan</b> , Muhamad Azani Yahya, Mohammed Alias Yusof and Muhammad Haris Fauzan Radzi (2018). Fine Granular of Shredded Waste Tyre for Road Kerb Application as Improvised Road Furniture. AIP Conf. Proc. 1930, 020061-1–020061-5; <a href="https://doi.org/10.1063/1.5022955">https://doi.org/10.1063/1.5022955</a>	International

#### 2.2.4 Proceedings Articles:

(Please list in chronological order and state: authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name))

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
1	<b>M.Vikneswaran</b> , Zaini Ujang (2002). Rehabilitation of Sanitation Program in Sg. Segget Catchment, Malaysian Science and Technology Congress 2002 (MSTC), Ministry of Science, Technology and Environment Malaysia (MOSTE), Confederation of Science and Technological Association in Malaysia (COSTAM).	National

2	Norazman M Nor, Ariffin Ismail, Aminudin Saat, Mohd Asri Md Nor, & <b>Vikneswaran Munikanan</b> . (2005). "Physical Responses to Blast Impact", <i>Proc., International Conference in Defence Technology 2005</i> , Putrajaya, Malaysia, 1 Dec 2005.	International
3	Norazman M Nor, Ariffin Ismail, Aminudin Saat, Mohd Asri Md Nor, <b>Vikneswaran Munikanan</b> & Mohd Rizam Zulkifli (2006). "Study of Blast Impact on Concrete Specimen", <i>Proc., 9<sup>th</sup> International Conference on Concrete Engineering and Technology (unbinded)</i> , Selangor, Malaysia, 10 Mei 2006.	International
4	<b>M. Vikneswaran</b> (2007). Sustainable Development Profile of Malaysia, Presented in Civil Engineering Seminar, National Defense University of Malaysia, Engineering Department, National Defense University of Malaysia.	University
5	Mohd Ismid Mohd Said , Rozana Zakaria , <b>M.Vikneswaran</b> (2008). Sustainable Neighbourhood in Malaysia, International Conference and Expo on Environmental Management and Technologies (ICEEMAT'08), PWTC, Kuala Lumpur, 10th – 12th December 2008, Institute of Environmental and Water Resource Management, UTM, Skudai, Johor.	International
6	<b>M.Vikneswaran</b> , Asso. Prof. Dr Mohd Ismid Mohd Said, Dr Rozana Zakaria (2008). Adaptation of Sustainable Living Concept in Malaysia, International Graduate Conference on Engineering and Science (IGCES), Universiti teknologi Malaysia, Skudai, Johor, 24 – 25 December 2008, School of Graduate Studies, UTM.	International
7	Vikneswaran, M., Mohd Said, M. I., & Zakaria, R. (2010). Implementation of sustainable neighbourhood elements (SNEs) model in Malaysian neighbourhood planning system. In CRIOCM 2010 - International Symposium on Advancement of Construction Management and Real Estate "Towards Sustainable Development of International Metropolis" (pp. 96-105). Chinese Research Institute of Construction Management. 6 – 7 August 2010, Thistle, JB.	International
8	Mohd Ismid Mohd Said, Rozana Zakaria, <b>M.Vikneswaran</b> (2009). The Elements of Sustainable Urban Neighbourhood Design. 7 <sup>th</sup> Asia Pacific Structural Engineering and Construction Conference 2009 (APSEC 2009) & The 2 <sup>nd</sup> European Asean Civil Engineering Forum (EACEF'2009), 4 -6 Aug 2009. Awana Porto Malai, Langkawi.	International
9	<b>M. Vikneswaran</b> , Mohd Ismid Mohd Said & Rozana Zakaria (2009). Sustainable Neighbourhood Planning and Design in Malaysia. International Conference on Building Science and Engineering (ICON-	International

	BSE 2009). 14 <sup>th</sup> – 15 <sup>th</sup> December 2009. The Puteri Pacific Hotel, Johor Bahru.	
10	Mohd Ismid Mohd Said, Rozana Zakaria, <b>M.Vikneswaran</b> (2009). Sustainable Living in Malaysia. International Conference on Engineering and Education in the 21 <sup>st</sup> Century (ICEE 2009). 23- 25 March 2009. Crowne Plaza Riverside, Kuching Sarawak.	International
11	<b>M.Vikneswaran</b> , Mohd. IsmidMohd. Said, Rozana Zakaria (2011). Sustainable Neighbourhood Planning and Design in Malaysian Perspective. Hotel Singgahsana, Petaling Jaya, Selangor, National Seminar on Asset and Project Management, 22 November 2011.	International
12	Rozana Zakaria, <b>M.Vikneswaran</b> & Mohd Ismid Mohd Said (2010). Adaptation of Sustainable Neighbourhood Elements (SNEs) in Malaysian Urban Neighbourhood Planning. The 8 <sup>th</sup> International Conference on Construction and Real Estate Management (2010). 1–3 December 2010. Brisbane, Australia.	International
13	<b>M.Vikneswaran</b> (2011). Sustainable Neighbourhood Planning and Design in Malaysian Perspective, National Seminar On Asset And Project Management “Time To Change: Managing Asset And Project Toward Sustainable Future” Malaysian Asset And Project Management Association (Mapma), Pertubuhan Profesional Jkr Malaysia (Projkrm).	National
14	Mohd Ismid Mohd Said, Rozana Zakaria, <b>M.Vikneswaran</b> (2011). Sustainable Neighbourhood Adaptation in Malaysia by Elemental Approach. International Conference on Sustainable Development. 5-7 December 2011. Palm Garden Hotel, IOI Resort, Putrajaya, Malaysia.	International
15	<b>M. Vikneswaran</b> , M. Z. Abdul Razak (2015), Study on Surface Runoff Harvesting for Sustainable UPNM Campus. 2 <sup>nd</sup> International Conference on Environmental and Biological Sciences 2015. 4 – 5 Sep 2015. IPN Network. Krabi, Thailand.	International
16	<b>M. Vikneswaran</b> *, Norazman Mohamad Nor, Ooi Jean Yean (2015). The comparison of thermal resistance between clay brick wall and sand brick wall for Malaysian climate. International Conference on Science, Technology and Management 2015. 9 – 10 Okt 2015. IPN Network. Kuala Lumpur.	International
17	Mohammed Alias Yusof, Nahzatul Farhana Najwa , Norazman Mohamad Nor, Ariffin Ismail,, Muhammad Azani Yahya , <b>Vikneswaran Munikanan</b> (2015). International Conference on Media and Mass Communication (ICMMC 2015). 18 -19 Dec 2015. IPN Network.Jakarta, Indonesia.	

18	Mohammed Alias Yusof, Nahzatul Farhana Najwa , Norazman Mohamad Nor, Ariffin Ismail,, Muhammad Azani Yahya , <b>Vikneswaran Munikanan</b> (2015). Behaviour of laminated glass panel using resin subjected to air blast loading. International Conference on Science, Technology and Management 2015. 9 – 10 Okt 2015. IPN Network. Kuala Lumpur.	International
19	<b>M.Vikneswaran</b> , Norazman, Mohammed Alias & Muhamad Azani (2015). Bioterrorism Readiness for Malaysian Environment. 7 <sup>th</sup> International Conference on Humanities and Social Sciences “ASEAN 2015: Challenges and Opportunities”. Songkla, Thailand.	International
20	<b>M.Vikneswaran</b> , Zuhairree Ariffin Assan & Norizan Abdul Majid (2016). Preparations To Terrorist Chemical Weapons Threats: From Malaysian Perspective. 8 <sup>th</sup> International Conference on Humanities and Social Sciences (ICHISS) 2016 “Innovation in Humanities and Social Sciences: Opportunities and Challenges”. Damansara, Selangor.	International
21	<b>M.Vikneswaran</b> and Muadz Azhar (2016). Study on Surface Runoff Harvesting for Sustainable UPNM Campus. 2016 International Conference on Advances in Energy and Environment Research, August 12-14, 2016, Guangzhou, China.	International
22	<b>M. Vikneswaran</b> , Ananthan, S., Wong, W.L., Muhamad Azani Yahya, Mohammed Alias Yusof and Rabiatal Adawiyah Ahamad Raffiee (2016). Signage Implementation for Disaster Relief Centres During Flood Disaster in Malaysia. 4 <sup>th</sup> AUN/SEED-NET Regional Conference on Natural Disaster (RCND) 2016, 6-7 Sept 2016, Seri Pacific Hotel, Kuala Lumpur.	International
23	Noraziah Wahi, Rosli Mohamad Zin, <b>Vikneswaran Munikanan</b> , Ismail Mohamad, Syahrizan Junaini and Saeed Balubaid (2017). Problems and Issues of High Rise Low Cost Housing in Malaysia. International Conference on Applied Electronics and Engineering, 7-8 Aug 2017, Kuching, Sarawak.	International
24	Noraziah Wahi, Rosli Mohamad Zin, <b>Vikneswaran Munikanan</b> , Ismail Mohamad, Syahrizan Junaini and Saeed Balubaid (2017). The High Rise Low Cost Housing: Sustainable Neighbourhood Elements (Green Elements) in Malaysia. International Conference on Applied Electronics and Engineering, 7-8 Aug 2017, Kuching, Sarawak.	International
25	Noraziah Wahi, Rosli Mohamad Zin, <b>Vikneswaran Munikanan</b> , Ismail Mohamad, Syahrizan Junaini and Saeed Balubaid (2017). Problems of the Low Cost Housing in Malaysia. 3 <sup>rd</sup> International Conference on Science Engineering and the Social Sciences, 17-18 May 2017, UTM, Skudai, Johor.	International

26	Noraziah Wahi, Rosli Mohamad Zin, <b>Vikneswaran Munikanan</b> , Ismail Mohamad, Syahrizan Junaini and Saeed Balubaid (2017). Sustainable Neighbourhood Elements (Grey Elements) for the high rise low cost housing in Malaysia. 3 <sup>rd</sup> International Conference on Science Engineering and the Social Sciences, 17-18 May 2017, UTM, Skudai, Johor.	International
27	<b>M. Vikneswaran</b> , Ananthan, S., Wong, W.L., Muhamad Azani Yahya, Mohammed Alias Yusof and Rabiatul Adawiyah Ahamad Raffiee (2017). The Implementation of Signage as the Tool Guide in Intelligent Transportation System for Disaster Relief Centers during Flood Disaster in Malaysia. 9 <sup>th</sup> International Conference on Humanity and Social Science, 26 Mei 2017, Hat Yai, Thailand.	International
28	<b>Vikneswaran Munikanan</b> , Muhamad Azani Yahya, Mohammed Alias Yusof, Muhammad Haris Fauzan Radzi (2017). Fine Granular Of Shredded Waste Tyre For Road Curb Application As Improvised Road Furniture. The International Conference on Engineering and Technology (IntCET 2017). 23-24 Nov 2017. Palm Garden Hotel, Putrajaya.	International
29	<b>M. Vikneswaran</b> , Muhamad Azani Yahya, Mohammed Alias Yusof and Siti Nor Kamariah Ismail (2017). Emergency Field Water Supply System Using Natural Filtration Elements. The International Conference on Engineering and Technology (IntCET 2017). 23-24 Nov 2017. Palm Garden Hotel, Putrajaya.	International
30	<b>M. Vikneswaran</b> , Rabiatul Adawiyah Ahmad Raffiee, Mohammed Alias Yusof, Muhamad Azani Yahya, S. Ananthan Subramaniam, Wong Wai Loong, Maidiana Othman and Jessica Galerial (2017). Implementation of Safety Signage to Ease Transportation System in Disaster Prone Area. The International Conference on Engineering and Technology (IntCET 2017). 23-24 Nov 2017. Palm Garden Hotel, Putrajaya.	International
31	Norhasliya Mohd Daud, Norazman Mohamad Nor, Mohamed Alias Yusof, Muhamad Azani Yahya, Vikneswaran Munikanan (2017). Axial and Flexural load test on untreated Bamboocrete multi-purpose panel. 4 <sup>th</sup> International Conference on Civil and Environmental Engineering for Sustainability (IconCEES 2017). December 4, 2017 – December 5, 2017.	International
32	Nur IzieAdiana Abidin, Rozana Zakaria, Eeydzah Aminuddin, Abdul Rahim Abdul Hamid, Vikneswaran Munikanan, Shaza Rina Sahamir and Siti Mazzuana Shamsuddin (2017). Factor Analysis on Criteria Affecting Lean Retrofit for Energy Efficient Initiatives in Higher Learning Institution Buildings. The 6 <sup>th</sup> International Conference of Euro Asia Civil Engineering Forum (EACEF 2017). MATEC Web Conf.	International

	Volume 138. 02025. <a href="https://doi.org/10.1051/mateconf/201713802025">https://doi.org/10.1051/mateconf/201713802025</a>	

### 3.0 ACADEMIC RECOGNITION AND LEADERSHIP, CONSULTANCY, SERVICE TO THE UNIVERSITY AND SERVICE TO THE COMMUNITY

#### (a) Academic Recognition and Leadership

Academic recognition and leadership such as Academic Award, Academic Assessor/External Examiner/Ph.D. Thesis Examiner, Master's Thesis Examiner/Promotion Assessor (External), Internal Thesis Examiner, Visiting Professor/Fellowship, Invited Speaker, Editorial Board and other academic recognition. (Please list in chronological order and state: Academic Recognition (e.g. award name, invited speakers etc.), year, level and awarding body/ name of institution)

No	Academic Recognition	Year	Level	Awarding Body / Name of Institution
1	Excellence Service Award	2011	Ministry	Ministry of Defense
2	Excellence In Academic Award	2012	University	Universiti Teknologi Malaysia
3	Editorial Board	2014 - current	International	International Journal of Construction Technology and Management
4	Best Presenter Award	2015	International	International Postgraduate Network, Malaysia
5	Gold Medal	2015	National	University Malaysia Pahang (AiNEX 2015)
6	Gold Medal	2015	National	Defense, Security and Sustainability Coloqium and Exhibition (DSS 2015), UPNM.
7	Silver Medal	2015	National	Defense, Security and Sustainability Coloqium and Exhibition (DSS 2015), UPNM.

8	Bronze Medal	2015	National	Defense, Security and Sustainability Colloquium and Exhibition (DSS 2015), UPM.
9	Bronze Medal	2015	National	Ministry of Higher Education Pecipta 2015
10	Bronze Medal	2015	National	Malaysian Association of Research Body, Malaysian Technology Expo 2015 (MTE 2015)
11	Session Chair	2015	International	IPN – IWNEST Conference 2015, Krabi, Thailand
12	Reviewer	2015	National	Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2015)
13	Reviewer	2015	International	Process Safety and Environmental Protection (Tier 2 Journal). Elsevier Online Publication
14	Special Award	2016	International	International Trade Fair (Iena 2016)
15	Gold Medal	2016	International	International Invention & Innovation Exhibition 2016 (ITEX 16)
16	Gold Medal	2016	International	International Invention & Innovation Exhibition 2016 (ITEX 16)
17	Gold Medal	2016	International	Innovation Technology Expo 2016, InTEX), UNIMAS
18	Gold Medal	2016	International	Malaysian Association of Research Body,

				Malaysian Technology Expo 2016 (MTE 2016)
19	Bronze Medal	2016	International	Malaysian Association of Research Body, Malaysian Technology Expo 2016 (MTE 2016)
20	Bronze Medal	2016	International	International Innovation, Design and Articulation 2016, UiTM
21	Bronze Medal	2016	International	International Innovation, Design and Articulation 2016, UiTM
22	Bronze Medal	2016	International	International Innovation, Design and Articulation 2016, UiTM
23	Bronze Medal	2016	Asia Pacific	BIOMALAYSIA- Asia Pacific Bioeconomy 2016
24	Gold Medal	2016	International	Pertandingan Rekacipta dan Inovasi Institusi Pengajian Tinggi Swasta (PERinTiS)
25	Bronze Medal	2016	International	Pertandingan Rekacipta dan Inovasi Institusi Pengajian Tinggi Swasta (PERinTiS)
26	Conference Committee and Reviewer	2016	International	2016 International Conference on Advances in Energy and Environment Research
27	Invited Speaker	2016	International	CBRNe Summit Asia 2016 – Vietnam
28	Opening Plenary Speech	2016	International	NCT Asia 2016 – Kuala Lumpur
29	Invited Speaker	2016	International	Chemical Weapon Threats And Surveillance 2017 Seminar – Kuala Lumpur



30	Bronze Medal	2017	International	Malaysian Association of Research Body, Malaysian Technology Expo 2016 (MTE 2017)
31	Bronze Medal	2017	International	Penang Invention, Innovation and Research Design Platform 2017 (PIID 2017)
32	Gold Medal	2017	International	International Invention & Innovation Exhibition 2016 (ITEX 17)
33	Silver Medal	2017	International	International Invention & Innovation Exhibition 2016 (ITEX 17)
34	Gold Medal	2017	International	Defense, Security & Sustainability (DSS) 2017
35	Bronze Medal	2017	International	Defense, Security & Sustainability (DSS) 2017
36	Gold Medal	2017	International	International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA)
37	Bronze Medal	2017	International	International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA)
38	Gold Medal (Poly-Mortar)	2017	International	British Invention Show 2017
39	Gold Medal (Emergency Warning Sign)	2017	International	British Invention Show 2017
40	PLATINUM AWARD (Environment Award)	2017	International	British Invention Show 2017
41	Outstanding Scientist Award	2017	International	Venus International Foundation

42	Reviewer	2017	International	9 <sup>th</sup> International Conference on Humanity and Social Science
43	Reviewer	2017	International	The 3rd International Conference On Low Carbon Asia & Beyond (ICLCA 17) (Scopus Indexed)
44	Reviewer	2018	International	International Journal of Integrated Engineering (Scopus Indexed)
45	Gold Medal	2018	International	International Invention & Innovation Exhibition 2016 (ITEX 17)
46	Silver Medal	2018	International	The 7th International Innovation, Invention & Design Competition 2018

**(b) Consultancy – Consultancy work that benefited to the University.**

(Please list in chronological order and state: title, year, sponsor, value, main researchers and duration of consultancy)

No.	Title	Year	Sponsor	Value	Duration
1.	Designing a field blast measurement system using NI LabVIEW software, and PXI hardware to test the response of concrete panels subjected to explosive loading	2017-2018	Virtual Instrument and System Innovation Sdn. Bhd.	RM10,600.00	1 year

**(c) Service to the University**

Service to the university such as Vice Chancellor/Deputy Vice Chancellor/Dean/Director, Deputy Dean/Deputy Director/Unit Coordinator/Hostel Warden, Programme Chairperson/ Assistant Warden/Fellow.

Representing University in Sports and Other Non-Academic Activities. Professional/Academic Association (Committee Member).

(Please list in chronological order and state: position/membership, committee and duration)

**(d) Service to the University**

Service to the university such as Vice Chancellor/Deputy Vice Chancellor/Dean/Director, Deputy Dean/Deputy Director/Unit Coordinator/Hostel Warden, Programme Chairperson/ Assistant Warden/Fellow. Representing University in Sports and Other Non-Academic Activities. Professional/Academic Association (Committee Member).

(Please list in chronological order and state: position/membership, committee and duration)

No	Position/Membership	Committee	Duration
1	Final Year Project Coordinator	Coordinator	2015-2016
2	New Engineering Program Coordinator	Coordinator	2015-2016
3	Facilitator	Academic Special Program	26 -28 Sep 2014
4	Facilitator	Academic Special Program	20-21 March 2015
5	Sukan Universiti Malaysia (SUKUM)	Represent University	17-24 Aug 2015
6	Juruaudit Dalam	UPNM	2014 – 2015
7	Graduate Member	Institute of Engineers Malaysia	2003 – current
8	Member	Malaysian Asset and Project Management Association	2012 – current
9	Associate ASEAN Engineer	Association of Engineering Organization (AFEO)	2012 – current
10	Treasurer	Association of Science, Technology and Innovation	2013 – current
11	Rapporteur	Defense, Services Asia 2016	19 Apr 2016
12	Pegawai Pengiring	Program Motivasi dan Kecemerlangan Pelajar 2016	22 – 24 Apr 2016
13	Assistant Project Director	Chemical and Biological Defense National Seminar	18 Oct 2017
14	Committee Member	International Symposium on Logistics and Transport (2 <sup>nd</sup> International Symposium) 2017: Future Transportation System	10 Nov 2017

15	Reviewer	9 <sup>th</sup> International Conference on Humanity and Social Science	25-27 Mei 2017
16	Sukan Universiti Malaysia (SUKUM) 2017	Represent University	28 Jul – 3 Aug 2017
17	Pengerusi	Jawatankuasa Teknologi Hijau dan Kelestarian Universiti	1 Nov 2017 – 31 Okt 2019
18	Ketua Jabatan Penyelidikan dan Perundingan	Pusat Penyelidikan Pertahanan Kimia (CHEMDEF)	1 Apr 2018 – 1 Sep 2018

**(e) Service to the community**

(Please list in chronological order and state: level of involvement, activity, organiser, venue, date/ year/ duration)

No	Level of involvement	Activity	Organiser	Venue	Date/Year/Duration
1	Chief Judge (National)	Science Fair for Young Children	Association of Science, technology and Science	AIMST University, Kedah	28 Jul 2010. 3 Days
2	Project Director (National)	Science Fair for Young Children	Association of Science, technology and Science	German-Malaysian Institute (GMI), Bangi	15 Jul 2011 3 Days
3	Project Director (National)	Science Fair for Young Children	Association of Science, technology and Science	German-Malaysian Institute (GMI)	29 Aug 2012 3 Days
4	National Judge	Science Fair for Young Children	Association of Science, technology and Science	Dewan Raja Muda Musa (DRMM), Kompleks Belia & Kebudayaan Selangor, Shah Alam	11 Nov 2014
5	Chief Judge's Panel (National)	Young Inventors Challenge	Association of Science, technology and Science	Dewan Puspanita, Kuala Lumpur	20 Sep 2014
6	Project Director	Creative and Critical	Association of Science,	Pusat Kecemerlangan	28 - 30 Nov 2014

		Thinking Camp	technology and Science	& Pembangunan Insan YPJ, Mersing Johor	
7	National Judge	Science Fair for Young Children	Association of Science, technology and Science	Manipal University, Nilai	3 Oct 2015
8	Project Director	Creative and Critical Thinking Camp	Association of Science, tehcnology and Science	AIMST University, Kedah	28 Nov 2015
9	Chief Judge's Panel (National)	Young Inventors Challenge	Association of Science, technology and Science	Sunway University, Kelana Jaya	19 Sep 2015
10	School	Program Motivasi Kepimpinan	SJK T Serdang	Dewan SJK T Serdang	3 Apr 2015
11	Jury (Asia Pacific)	4 <sup>th</sup> Asia Pacific Conference Of Young Scientist (APCYS)	Royal Military College	Malaysian Youth Center, Cheras	2015
12	Jury (University)	Pertandingan Inovasi EEE 1012 & EEE 2022 2015	UPNM	FKJ, UPNM	2015
13	Panel member	The MIND Education Fund	The MIND Association	National	2015
14	Penceramah Kerohanian	Ceramah Kerohanian	SMK Desa Serdang, Selangor	Dewan SMK Desa Serdang	2016
15	Panel member	The MIND Education Fund	The MIND Association	National	2016
16	Assistant Chairman	Chemical and Biological Defense Seminar	PPPI, Faculty of Engineering, Foundation Centre	National	2016

17	Project Director	Creative and Critical Thinking Camp	Association of Science, technology and Science	Nur Lembah Pangsun, Hulu Langat, Selangor	2016
18	Penceramah	Ceramah Program Anti Buli	SMK Desa Serdang, Selangor	Dewan SMK Desa Serdang	16 Jun 2017
19	Penceramah	Ceramah Akhlak Mulia	SK Taman Sungai Besi Indah, Seri Kembangan Selangor	Dewan SK Taman Sg Besi Indah	29 Sept 2017