



## Curriculum Vitae

### Personal Particulars

**Name:** Ismail Bin Abustan

**Current position:** Professor of Urban Water

**Academic and Professional Qualifications** (Please list all academic qualifications, from your first degree, in chronological order)

Year	Degree	Discipline	University
1990	Bachelor of Sc. (Civil Eng.)	Civil Engineering	The George Washington University, Washington D.C.
1992	Master of Engineering Science.	Water Engineering	University of New South Wales, Sydney, Australia
1997	PhD	Water Engineering	University of New South Wales, Sydney, Australia

### Titles of postgraduate theses

A Review of On-site Detention for Urban Stormwater Management (Master of Engineering Science)  
Modeling of Phosphorous Transport in Urban Stormwater Runoff (PhD)

### III. Work Experience (Please list your relevant experiences in chronological order)

Year	Position	Place of Work	Field of Work
2013	Professor	School of Civil Engineering, Engineering Campus, Nibong Tebal, Penang	
2008-2009	Visiting Professor	Disaster Prevention Research Institute (DPRI), Kyoto University, Japan	Lecture and Research in the field of Urban and Water Resources, Disaster Management in Urban Areas
2009	Visiting Scholar	UNESCO-Humid Tropic Centre Kuala Lumpur	
2013	Visiting Professor	King Saud University, Riyadh, KSA	
2014	Visiting Professor	DPRI, Kyoto University, Kyoto, Japan	

### IV. Main Current Research Areas (Please list a maximum of three)

Urban Water , Hydraulics Modeling, River Bank Filtration

In this section of your **Curriculum Vitae**, you are requested to assess your contributions, which will be evaluated according to the specific categories. Each activity is to be listed in one category only. You are requested to award marks for each of the activities. Please list all the activities in chronological order. For multiple contributors/authors or in the case of team teaching, please indicate the number of contributors/authors.

1.0 RESEARCH AND PUBLICATION related to Community and Industry	
1.1	<b>Research Publications (from 2008 onward)</b>
(a)	<p><b>Research Book/Monograph</b></p> <ol style="list-style-type: none"> <li>1. Nabsiah Abdul Wahid, Ismail Abustan and Azamuddin Arsad, Family Recreational Activity: Learning River Water Quality Estimation Using Biological Indicator, UNESCO-IHP Malaysia, 2012.</li> <li>2. Nabsiah Abdul Wahid, Ismail Abustan and Muhammad Aminur Rashid Amiruddin Arumugam, 'Application of Simple and Effective Domestic Water Management for Household Consumers' , UNESCO-IHP Malaysia, 2012.</li> <li>3. Kamarudin Samuding, Mohd Tadza Abdul Rahman, Ismail Abustan, Lakam Mejus and Roslanzairi Mostapain Integrated Study on the Distribution of Contamination Flow Path at a Waste Disposal Site in Malaysia in "Municipal and Industrial Waste Disposal" edited by Xiao-Ying Yu, ISBN 978-953-51-0501-5, InTech, April 4, 2012</li> <li>4. SIRIM Malaysian Standard: LANDFILL SAFE CLOSURE – REQUIREMENTS, SIRIM Berhad (Company No. 367474-V) 1, Persiaran Dato' Menteri P.O. Box 7035, Section 2, 40911 Shah Alam, Selangor Darul Ehsan, Malaysia</li> <li>5. SIRIM Malaysian Standard: GUIDELINES FOR CONTAMINATED SITE REMEDIATION', SIRIM Berhad (Company No. 367474-V) 1, Persiaran Dato' Menteri P.O. Box 7035, Section 2, 40911 Shah Alam, Selangor Darul Ehsan, Malaysia</li> <li>6. "Chapter 8: Infiltration", in 2<sup>nd</sup> EDITION <i>Urban Stormwater Management Manual for Malaysia (MSMA 2<sup>ND</sup> EDITION)</i>, Department of Irrigation and Drainage Malaysia, 2011 (In print)</li> <li>7. "Chapter 10: Gross Pollutant Traps", in 2<sup>nd</sup> EDITION <i>Urban Stormwater Management Manual for Malaysia (MSMA 2<sup>ND</sup> EDITION)</i>, Department of Irrigation and Drainage Malaysia, 2011 (In print)</li> <li>8. <i>SIRIM Malaysian Standard: URBAN STORMWATER MANAGEMENT – CODE OF PRACTICE PART 8: INFILTRATION FACILITIES</i>, SIRIM Berhad (Company No. 367474-V) 1, Persiaran Dato' Menteri P.O. Box 7035, Section 2, 40911 Shah Alam, Selangor Darul Ehsan, Malaysia (In print)</li> <li>9. <i>SIRIM Malaysian Standard: URBAN STORMWATER MANAGEMENT – CODE OF PRACTICE PART 10: GROSS POLLUTANT TRAPS</i>, SIRIM Berhad (Company No. 367474-V) 1, Persiaran Dato' Menteri P.O. Box 7035, Section 2, 40911 Shah Alam, Selangor Darul Ehsan, Malaysia (In print)</li> <li>10. <i>SIRIM Malaysian Standard: GUIDELINES FOR CONTAMINATED SITE REMEDIATION</i>, SIRIM Berhad (Company No. 367474-V) 1, Persiaran Dato' Menteri P.O. Box 7035, Section 2, 40911 Shah Alam, Selangor Darul Ehsan, Malaysia</li> <li>11. Abustan, Ismail, Choong Wee Kang, Ahmad Shukri Yahya, 'Hydrological Procedure No. 5 : Rational Method of Flood Estimation for Rural Catchment in Peninsular Malaysia, Department of Irrigation and Drainage, Malaysia.</li> <li>12. Abdul Wahid, N., and Abustan, Ismail, 'Sg. Sedim – Sg. Pinang Expedition 2008 : Capacity Building for Early Youngsters Rivers is for Keeps', Monograph Healty Campus, Universiti Sains Malaysia, 2010</li> <li>13. <b>Ismail ABUSTAN</b>, Kamar Shah ARIFFIN, Zainal Arifin MOHD ISHAK, Mohd Azmier AHMAD, Nabsiah ABDUL WAHID and Mohd Tadza ABD RAHMAN, PROCEEDINGS OF WASTE MANAGEMENT REGIONAL CONFERENCE 2009: TOWARDS SUSTAINABLE TOMORROW "TOWARDS SUSTAINABLE IN WASTE MANAGEMENT" 3– 4 March 2009 Kuala Lumpur, MALAYSIA, ISBN No. 978-983-44505-0-2</li> <li>14. <b>ABUSTAN, I</b> and ARIFFIN, K.S, 'PROCEEDINGS OF THE FIRST REGIONAL CONFERENCE</li> </ol>

	<p>ON GEO-DISASTER MITIGATION IN ASEAN “TOWARDS SUSTAINABLE IN GEOENVIRONMENT AND GEOHAZARD” 3– 4 March 2009 ,Kuala Lumpur, MALAYSIA. ISBN No. 978-983-44505-1-9</p> <p>15. Abdul Wahid, N., and <b>Abustan, Ismail</b>, ‘SG. SEDIM – SG. PINANG EXPEDITION 2008 : CAPACITY BUILDING FOR EARLY YOUNGSTERS RIVERS IS FOR KEEPS’, Monograph USM Healty Campus, USM Publisher, Universiti Sains Malaysia, 2009</p> <p>16. <i>SIRIM Malaysian Standard: GUIDELINES FOR CONTAMINATED SITE REMEDIATION</i>, SIRIM Berhad (Company No. 367474-V) 1, Persiaran Dato’ Menteri P.O. Box 7035, Section 2, 40911 Shah Alam, Selangor Darul Ehsan, Malaysia</p> <p>17. <i>SIRIM Malaysian Standard: Standard practice for assessment of attaining clean up level for site remediation</i>, SIRIM Berhad (Company No. 367474-V) 1, Persiaran Dato’ Menteri P.O. Box 7035, Section 2, 40911 Shah Alam, Selangor Darul Ehsan, Malaysia.</p> <p>18. <i>SIRIM Malaysian Standard: Guidelines for Developing and Implementing Early Action for Site Remediation</i>, SIRIM Berhad (Company No. 367474-V) 1, Persiaran Dato’ Menteri P.O. Box 7035, Section 2 40911, Shah Alam, Selangor Darul Ehsan, Malaysia.</p>
(b)	<p>Journal/E-Journal/Journal Proceeding (each publication)</p> <p>1. TM Alslaibi, I Abustan, MA Ahmad, A Abu Foul (2015) ,’Comparative studies on the olive stone activated carbon adsorption of Zn<sup>2+</sup>, Ni<sup>2+</sup>, and Cd<sup>2+</sup> from synthetic wastewater’, <i>Desalination and Water Treatment</i> 54 (1), 166-177</p> <p>2. MF Chow, Z Yusop, I Abustan (2015),’Relationship between sediment build-up characteristics and antecedent dry days on different urban road surfaces in Malaysia’, <i>Urban Water Journal</i> 12 (3), 240-247</p> <p>3. Abd Rashid, Nur Aziemah, Nurulezzah Abd Rahim, Ismail Abustan, Rose Farahnadrah Munawar, Ahmad Awalludin, Nur Atiqah (2015),’ The Potential and Benefits of Artificial Barrier Application at RBF’, <i>Applied Mechanics and Materials</i>, 802 pg 611-616.</p> <p>4. Che Ismail, Mohd Arif Zainol, Mohd Remy Rozainy, Ismail Abustan, AM Mustafa Al Bakri (2015),’ The Study of Mengkuang Dam’s Chute Spillway by Physical Modelling’, <i>Applied Mechanics &amp; Materials</i>, 802</p> <p>5. MH Azizan, NA Wahid, I Abustan (2015),’Integrated Marketing Communication: Environmental Information Leads Stewardship’, <i>Advanced Science Letters</i> 21 (4), 933-936</p> <p>6. Nur Aziemah Abd Rashid, Mohd Hafidz Roslan, Nurulezzah Abd Rahim, Ismail Abustan, Mohd Nordin Adlan (2015), ‘ARTIFICIAL BARRIER FOR RIVERBANK FILTRATION AS IMPROVEMENT OF SOIL PERMEABILITY AND WATER QUALITY’, <i>Jurnal Teknologi</i> 74 pg11</p> <p>7. Abdul Wahid Nabsiah, KH Chew, I Abustan (2015), ‘Improved Water Services and Malaysian Household’s Willingness to Pay: A Descriptive Analysis’, <i>Applied Mechanics and Materials</i> 802, 649-654</p> <p>8. Mohd Remy Rozainy, AW Khairy, Ismail Abustan, Mustafa Al Bakri, Abdullah Mohd (2015),’ Model Study for Upgrading of Sungai Belibis Pump Sump’ <i>Applied Mechanics and Materials</i>, 802 pg 617-622</p> <p>9. Abd Rashid, Nur Aziemah, Ismail Abustan, Mohd Nordin Adlan (2015), ‘Effect of Particle Size Distribution to Remove Contaminants in Groundwater at Dengkil, Selangor’, <i>Applied Mechanics and Materials</i>, 773 pg 1158-1162</p> <p>10. Mohd Khairul Nizam Mahmad, Mohd Remy Rozainy, Ismail Abustan, Norlia Baharun (2015),’ Removal of Iron and Total Chromium Contaminations in Landfill Leachate by Using Electrocoagulation Process’,</p> <p>11. TM Alslaibi, I Abustan, MA Ahmad, A Abu Foul (2015), ‘Comparative studies on the olive stone activated carbon adsorption of Zn<sup>2+</sup>, Ni<sup>2+</sup>, and Cd<sup>2+</sup> from synthetic wastewater’,<i>Desalination and Water Treatment</i> 54 (1), 166-177</p> <p>12. MF Chow, Z Yusop, I Abustan (2015),’Relationship between sediment build-up characteristics and antecedent dry days on different urban road surfaces in Malaysia’, <i>Urban Water Journal</i> 12 (3), 240-247</p> <p>13. MH Azizan, NA Wahid, I Abustan (2015), ‘Integrated Marketing Communication: Environmental</p>

Information Leads Stewardship', *Advanced Science Letters* 21 (4), 933-936

14. A Rashid, N Aziemah, I Abustan, MN Adlan (2015), 'Effect of Particle Size Distribution to Remove Contaminants in Groundwater at Dengkil, Selangor', *Applied Mechanics and Materials* 773, 1158-1162
15. NAA Rashid, MH Roslan, NA Rahim, I Abustan, MN Adlan (2015), 'ARTIFICIAL BARRIER FOR RIVERBANK FILTRATION AS IMPROVEMENT OF SOIL PERMEABILITY AND WATER QUALITY', *Jurnal Teknologi* 74 (11)
16. MSA Jabal, I Abustan, MR Rozaimy, H Al-Najar (2014), 'Fluoride enrichment in groundwater of semi-arid urban area: Khan Younis City, southern Gaza Strip (Palestine)'. *Journal of African Earth Sciences* 100, 259-266
17. M.H.Ali, I. Abustan, M.H. Zaman, A.K.M.R. Islam, , A. AlBassam (2014), 'Optimising irrigation water for field crops to maximise the yield and economic return', *Global Advanced Research Journal of Agricultural Science* (ISSN: 2315-5094) Vol. 3(8) pp. 223-232
18. Soon Min Ng, Mohd Ashraf Mohamad Ismail, and Ismail Abustan (2014), 'Probabilistic Back Analysis of a Cut Slope: A Case Study of Slope Failure Event in Precinct 9, Putrajaya, Malaysia' *Landslide Science for a Safer Geoenvironment 2014*, pp 413-418,
19. Mohd S. Abu Jabal, Ismail Abustan\*, Mohd Remy Rozaimy, Hussam El Najar (2014), 'Groundwater beneath the urban area of Khan Younis City, southern Gaza Strip (Palestine): hydrochemistry and water quality, *Journal of African Earth Sciences*, Volume 100, December 2014, Pages 259–266
20. M.H. Ali\*, I. Abustan (2014), A new novel index for evaluating model performance, *Journal of Natural Resources and Development* 2014; 04: 1-9
21. S Syafalni, Mohd Hafiz Zawawi, Ismail Abustan (2014), 'Isotopic and Hydrochemistry Fingerprinting of Leachate Migration in Shallow Groundwater at Controlled and Uncontrolled Landfill Sites', *World Applied Sciences Journal* 31 (6): 1198-1206
22. TM Alslaibi, I Abustan, MA Ahmad, AA Foul (2014) Microwave irradiated and thermally heated olive stone activated carbon for nickel adsorption from synthetic wastewater: a comparative study *AIChE Journal* 60 (1), 237-250
23. Mohd Nordin Adlan, Hamidi Abdul Aziz, Ismail Abustan, Mohd Nawawi Mohd Nordin, Rosli Saad, Saim Suratman, Mohd Khairul Niza Shamsuddin (2013), 'Water Security: Embarking on a River Bank Filtration Approach for Resource Abstraction, *Asian Water Magazine*, , Water Malaysia,
24. NA Wahid, I Abustan, Z Abas, R Arshad (2013) Drinking Water for Public Consumption: The Call for a Socio-Economic Cost Analysis *Global Journal on Advances Pure and Applied Sciences* 1
25. Jaber Alkaseh, Mohd Nordin Adlan, Ismail Abustan, Hamidi Abdul Aziz and Abu Bakar Mohamad Hanif, 'Applying Minimum Night Flow to Estimate Water Loss Using Statistical Modeling : A Case Study in Kinta Valley, Malaysia', *Water Resources Management*, Springer, DOI 10.1007/s11269-012-0247-2 (2013)
26. Alslaibi, T. M.; Abustan, I.; Ahmad, M. A.; Abu Foul, A.,(2013) Kinetics and equilibrium adsorption of iron (II), lead (II), and copper (II) onto activated carbon prepared from olive stone waste. *Desalination and Water Treatment*. DOI: 10.1080/19443994.2013.833875. (In press).
27. M. H. Ali, I. Abustan and S. Islam, 'Simulation of upward flux from shallow water-table using UPFLOW model.' *Journal of Natural Resources and Development* 2013; 03: 123-127
28. Mohamad Razip Selamat, Asad Siraj Abu-Rizaiza, Hamidi Abdul Aziz, Mohd Nawawi Mohd Nordin, Mohd Suffian Yusoff, Ismail Abustan, Kamar Shah Ariffin, Rosli Saad, Mohammed JK Bashir (2013), 'Study on the adequacy of landfill cover at muassim landfill, makkah, Saudi Arabia', *Environmental Progress & Sustainable Energy*, Vol 32(3), 569-575
29. Alslaibi, T. M.; Abustan, I.; Ahmad, M. A.; Abu Foul, A.,(2013) Preparation of activated carbon from olive stone waste: Optimization study on the removal of Cu<sup>2+</sup>, Cd<sup>2+</sup>, Ni<sup>2+</sup>, Pb<sup>2+</sup>, Fe<sup>2+</sup> and Zn<sup>2+</sup> from aqueous solution using response surface methodology. *Journal of Dispersion Science and Technology*. DOI: 10.1080/01932691.2013.809506. (In press).
30. Alslaibi, T. M.; Abustan, I.; Ahmad, M. A.; Foul, A. A. (2013). Microwave irradiated and thermally heated olive stone activated carbon for nickel adsorption from synthetic wastewater: a

	<p>comparative study. <i>American Institute of Chemical Engineering Journal</i>. DOI: 10.1002/aic.14236. (In press).</p> <p>31. Tamer M. Alslaibi, Ismail Abustan, Mohd Azmier Ahmad and Ahmad Abu Foul, 'A review: production of activated carbon from agricultural byproducts via conventional and microwave heating', <i>J ChemTechnol Biotechnol</i> (2013), DOI 10.1002/jctb.4028</p> <p>32. Irnis Azura Zakarya, Ismail Abustan, Norli Ismail, Mohd Saif Yusoff, 'Production of methane gas from organic fraction municipal solid waste (OFMSW) via anaerobic process: application methodology for the Malaysian condition', <i>Int. J. Environment and Waste Management</i>, Vol. 12, No. 2, 2013</p> <p>33. Tamer M. Alslaibi, Ismail Abustan, Mohd Azmier Ahmad and Ahmad Abu Foul, 'Application of response surface methodology (RSM) for optimization of Cu<sup>2+</sup>, Cd<sup>2+</sup>, Ni<sup>2+</sup>, Pb<sup>2+</sup>, Fe<sup>2+</sup>, and Zn<sup>2+</sup> removal from aqueous solution using microwaved olive stone activated carbon', <i>J ChemTechnol Biotechnol</i> (2013), DOI 10.1002/jctb.4073</p> <p>34. S. Syafalni, Ismail Abustan, Aderiza Brahmana, Siti Nor Farhana Zakaria, Rohana Abdullah, 'Peat Water Treatment Using Combination of Cationic Surfactant Modified Zeolite, Granular Activated Carbon, and Limestone', <i>Modern Applied Science</i>, Vol 7, No 2 (2013)</p> <p>35. Tamer M. Alslaibi, Ismail Abustan, Mohd Azmier Ahmad and Ahmad Abu Foul, 'Cadmium removal from aqueous solution using microwaved olive stone activated carbon', <i>Journal of Environmental Chemical Engineering</i> (2013), <a href="http://dx.doi.org/10.1016/j.jece.2013">http://dx.doi.org/10.1016/j.jece.2013</a></p> <p>36. Tamer M Alslaibi, Ismail Abustan, Yunes K Mogheir, and Samir Afifi, 'Quantification of leachate discharged to groundwater using the water balance method and the Hydrologic Evaluation of Landfill Performance (HELP) model', <i>Waste Management &amp; Research</i>, January 2013; vol. 31, 1: pp. 50-59</p> <p>37. Syafalni, Han Khim Lim, Norli Ismail, Ismail Abustan, Mohamad Fared Murshed, Anees Ahmad, Treatment of landfill leachate by using lateritic soil as a natural coagulant, <i>Journal of Environmental Management</i>, 2012, 112 (2012) 353-359</p> <p>38. Tamer ALSLAIB, Ismail ABUSTAN, Mohd Azmier AHMAD, and Ahmad ABU FOUL, 'Review: Comparison of agricultural by-products activated carbon production methods using surface area response', <i>Caspian Journal of Applied Sciences Research</i>, 2(AICCE'12 &amp; GIZ' 12), pp. 18-27, 2013</p> <p>39. Md Hossain Ali, Ismail Abustan, Md Ashiqur Rahman &amp; Abu Ahmed Mokammel Haque, Sustainability of Groundwater Resources in the North-Eastern Region of Bangladesh, <i>Water Resource Management</i>, Volume 26, Issue 3 , pp 623-641, 2012</p> <p>40. Esmaeil Kordi, M.ASCE; and Ismail Abustan, A.M.ASCE, Transitional Expanding Hydraulic Jump, <i>JOURNAL OF HYDRAULIC ENGINEERING</i>, ASCE, 2012, Vol. 138, No. 1</p> <p>41. Syafalni, Ismail Abustan, Irvan Dahlan, Chan Kok Wah, Genius Umar, Treatment of Dye Wastewater Using Granular Activated Carbon and Zeolite Filter, <i>Modern Applied Science</i>, 2012, Vol. 6, No. 2; February 2012, , 15</p> <p>42. Syafalni S., Ismail Abustan, Norli Ismail &amp; Tan Soke Kwan, Production of Biofloculant by <i>Chryseomonas Luteola</i> and Its Application in Dye Wastewater Treatment, <i>Modern Applied Science</i>, 2012, Vol. 6, No. 5.</p> <p>43. Ismail Abustan, Meor Othman Hamzah, Mohd Aminur Rashid, A 3-DIMENSIONAL NUMERICAL STUDY OF A FLOW WITHIN A PERMEABLE PAVEMENT, <i>OIDA International Journal of Sustainable Development</i>, 2012, 04: 02</p> <p>44. Azamuddin Arsad, Ismail Abustan, Che Salmah Md. Rawi, Syafalni, INTEGRATING BIOLOGICAL ASPECTS INTO RIVER WATER QUALITY RESEARCH IN MALAYSIA: AN OPINION, <i>OIDA International Journal of Sustainable Development</i>, 2012, 04: 02</p> <p>45. Norlida Mohd Dom, Ismail Abustan and Rozi Abdullah, Dissolved Organic Carbon Production and Runoff Quality of Sungai Kerayong, Kuala Lumpur, Malaysia , <i>International Journal of Engineering &amp; Technology</i>, 2012, Vol:12 No:04.</p> <p>46. Ismail Abustan, Meor Othman Hamzah, Mohd Aminur Rashid, REVIEW OF PERMEABLE PAVEMENT SYSTEMS IN MALAYSIA CONDITIONS , <i>OIDA International Journal of Sustainable Development</i>, 2012, 04: 02.</p> <p>47. S. Syafalni, Ismail Abustan, Siti Nor Farhana Zakaria, Mohd Hafiz Zawawi and Rafini Abd Rahim, Raw water treatment using bentonite-chitosan as a coagulant, <i>Water Science &amp; Technology</i>:</p>
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	<p><b>Research Grant related to Community and Industry (from 2008 onward)</b></p>
<p>(a)</p>	<p><b>International</b></p> <p><b>(i)Project Head</b></p> <ol style="list-style-type: none"> <li>1. Physical Hydraulic Model Study on Labyrinth Spillway , Swee Sendirian Berhad BANDAR SERI BEGAWAN, BRUNEI, RM256,000 Prof Ismail Abustan (Project Leader), Mohd Remy, Muhammad Salleh Abustan, Siti Hidayah, Nabsiah Abdul Wahid</li> <li>2. The Proposed Design and Tendering for the Proposed Design and Tendering for A Safe Closure of Muassim, Mina Disposal Site, Phase 1 (Mayor Of Makkah, Holy Makkah Municipality, Kingdom of Saudi Arabia) RM 365700 Dr. Ismail Abustan (Project Leader), Ali Huddin Bin Ibrahim, Profesor Hamidi Bin Abdul Aziz, Prof Madya Kamar Shah Bin Ariffin, Prof Madya Mohamad Razip Bin Selamat, Prof Madya Mohd Nawawi Bin Mohd Nordin, Prof Madya Mohd Nordin Bin Adlan, Dr Mohd Suffian Bin Yusoff, Dr Rosli Bin Saad.</li> <li>3. Assessment and Modification of Available Models to Suit local Condition and possible application for the region (AP-FREND/IHP/UNESCO Project) (Assistance fund in attending oversea conferences ) Dr. <b>Ismail Abustan</b> (Project Leader), Dr. Mohd Nor Desa, Dr. Nabsiah Abdul Wahid</li> </ol> <p><b>(ii)Co-researcher</b></p> <ol style="list-style-type: none"> <li>1. The Proposed Design and Tendering for the New Phase of Landfill at Kakia Disposal Site Phase I (Mayor Of Makkah, Holy Makkah Municipality, Kingdom Of Saudi Arabia) RM 281750 Dr. Hamidi Bin Abdul Aziz (Project Leader), Ali Huddin Bin Ibrahim, Prof Madya Ismail Bin Abustan, Prof Madya Kamar Shah Bin Ariffin, Prof Madya Kamar Shah Bin Ariffin, Prof Madya Mohamad Razip Bin Selamat, Prof Madya Mohd Nawawi Bin Mohd Nordin, Prof Madya Mohd Nordin Bin Adlan, Dr Mohd Suffian Bin Yusoff, Dr Rosli Bin Saad</li> <li>2. Isotope Hydrology for Groundwater Contamination Study in Industrial Site (MAL/8/018) – International Atomic Energy Agency (IAEA) Project (USD 110,000.00) Dr. Mohd Tadza Abdul Rahman (Project Leader), <b>Dr. Ismail Abustan</b>, Kamarudin Samuding, Dr. Abdul Rahim Samsudin.</li> <li>3. Isotope Techniques for Groundwater Contamination Studies in Urbanized Areas – Regional Cooperation Asia-Pacific RCA/IAEA Dr. Mohd Tadza Abdul Rahman (Project Leader), <b>Dr. Ismail Abustan</b>, Dr. Nor Hisham Ramli, Dr. Hamidi Abdul Aziz.</li> <li>4. Development of Vulnerable Natural Slope Catalog in South East Asia, AUN-Seed Net - JICA Dr. Dwikorita Karnawati, Gadjah Mada University, INDONESIA (leader), Prof Aoki, Kyoto University, Japan, <b>Dr. Hj. Ismail Abustan</b>, University Sains Malaysia. Sponsor by AUN-Seed Net and JICA</li> </ol>

(b)	<p><b>National</b></p> <p><b>(i) Programme Head</b></p> <ol style="list-style-type: none"> <li>1. Advancement Of The Best Waste Management Practice In The Northern Corridor Economic Region (NCER), USM (RU), (RM1,000,000.00) <b>Ismail Bin Abustan</b>, Abdul Latif Bin Ahmad, Ahmad Bin Md Noor, Ahmad Zuhairi Bin Abdullah, Amat Ngilmi Bin Ahmad Sujari, Badorul Hisham Bin Abu Bakar, Fauziah Binti Ahmad, Hamidi Bin Abdul Aziz @ Abdul Rahman, Hanafi Bin Ismail, Lee Keat Teong, Lim Poh Eng, Luay Bakir Hussain, Mahamad Hakimi Bin Ibrahim, Mashitah Bt Mat Don, Mohamad Razip Bin Selamat, Mohd Asri Bin Mohd Nawi, Mohd Azmier Bin Ahmad, Mohd Nawawi Bin Mohd Nordin, Mohd Nordin Bin Adlan, Mohd Omar Bin Ab Kadir, Mohd Sanusi Bin S. Ahamad, Mohd Suffian Bin Yusoff, Nik Norulaini Binti Nik Ab Rahman, Nor Habsah Binti Md. Sabiani, Norli Binti Ismail, Norlia Binti Baharun, Ridzuan Bin Zakaria, Seng Chye Eng, Wan Rosli Bin Wan Daud, Zainal Alimuddin Bin Zainal Alauddin, Zainal Arifin Bin Mohd Ishak, Zulkifli Bin Mohamad Ariff</li> </ol> <p><b>(ii) Project Head</b></p> <ol style="list-style-type: none"> <li>1. Flood and Flood Disaster : Flood Hazard Map Utilizing Public Domain Inundation Hydrological (FRM) and Hydraulic (HEC-RAS) Models and GIS Skim Geran Penyelidikan Fundamental (FRGS) KEMENTERIAN PENGAJIAN TINGGI (RM99,700.00)</li> <li>2. Development Of Modular Infiltration Within Permeable Pavements For Urban Stormwater Management , KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI , RM191,080.00</li> <li>3. Mengkuang Dam Expansion Project, Pulau Pinang Construction of Dam and Associated Works Agensi Luar CHINA INTERNATIONAL WATER &amp; ELECTRIC CORP (M) SDN. BHD. RM 125,760.00</li> <li>4. Exploratory Study On The Sustainable Sand Mining Activities Using ADCP, Resistivity Method And Sediment Transport , USM (RU) , RM150,000.00</li> <li>5. Raw Water Pump Sump Model Test for Batu Kitang Water Treatment Plant 3, Kuching, Sarawak , WATER ENGINEERING TECHNOLOGY SDN. BHD. , RM80,000.00</li> <li>6. Kajian Penentuan Kapasiti Pengeluaran Pasir Secara Mapan Sg. Perak di Bota, Perak Tengah , JABATAN PENGAIRAN &amp; SALIRAN NEGERI PERAK DARUL RIDZUAN , RM21,094.00</li> <li>7. Computatioon Modelling Study Using Fluent (CFD) for Mengkuang Dam Agensi Luar ADASFA SDN. BHD. RM 34,800.00</li> <li>8. Water Quality Study for Green Drainage System (GDS) , IJ BERKAT ENTERPRISE , RM20,000.00</li> <li>9. Computer Modeling of Model Testing of Sewage Pumping Station , JOHNSON FLUID ENGINEERING SDN. BHD. , RM15,600.00</li> <li>10. Polishing of Pretreated Semi-Aerobic Landfill Leachate Using Constructed Wetland , KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI , RM150,688.00</li> <li>11. Model Testing of Pump Sump Model Test for 'Kerja Penaikan Taraf Skim Pengairan Sg. Yong, Kelantan Privately sponsor grant by Hydro-Trent (M) Sdn. Bhd (RM 144,960) Prof Madya Ismail Bin Abustan(Leader), Prof Madya Nabsiah Binti Abdul Wahid, Dr Syafalni</li> <li>12. Pump Sump Model Testing For Sungai Perai Pumping Station Privately sponsor grant by Adasfa Sdn. Bhd (RM 90,000) Prof Madya Ismail Bin Abustan (Leader)</li> <li>13. Hydraulic modeling of Pump Sump using Physical Model, Science Fund MOSTI Ismail Abustan (Leader), Syafalni, Zulkifli Abdullah, and Kamarudin Samuding (RM213,630.00) (2007 – 2009)</li> <li>14. Reseach Contract for TNB Research Sdn Bhd - 'Physical Model for Trash Diverter 2, Tenom-Pinji Hydropower Station, Sabah, (Project Leader) RM 180,000.00 (2007 – 2008)</li> <li>15. Raw Water Pump Sump Model Test for Kudat Water Supply Scheme, Sabah, Privately sponsor grant by Water Engineering Technology Sdn. Bhd, RM 74,300.00.</li> </ol> <p><b>(iii) Co-researcher</b></p> <ol style="list-style-type: none"> <li>1. RIVER BANK/BED FILTRATION FOR DRINKING WATER SOURCE ABSTRACTION Skim</li> </ol>
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	<p>Geran Penyelidikan Jangka Panjang (LRGS) KEMENTERIAN PENGAJIAN TINGGI RM2,696,150.00</p> <ol style="list-style-type: none"> <li>2. SOCIO-ECONOMIC COST ANALYSIS OF RIVER BANK FILTRATION (RBF) AND TREATMENT TECHNOLOGY FOR PUBLIC'S DRINKING WATER Skim Geran Penyelidikan Jangka Panjang (LRGS) KEMENTERIAN PENGAJIAN TINGGI RM 398,100.00</li> <li>3. Impact on Environmental Assets: Preparedness on water abstraction and treatment for flood prone areas in Kelantan River Basin. Skim Geran Penyelidikan Fundamental (FRGS) KEMENTERIAN PENGAJIAN TINGGI RM 99,400.00</li> <li>4. Study On Effectiveness Of Capillary Barrier As Landfill Cover Under Tropical Climate , KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI , RM170,995.00</li> <li>5. Application Of Non-Invasive And Remote Self-Potential (Sp) Geophysical Technique For Subsurface Hydrogeological Investigation And Characterization By Clever Geophysical Modeling And Inversion. , KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI , RM130,696.00</li> <li>6. Treatability Assessment of Natural Organic Matter (NOM) of Surface Water and Groundwater for Drinking Water Purposes USM Jangka Pendek USM (JANGKA PENDEK) RM40,912.00</li> <li>7. Use Of Filtration And Solar Treatment For Conversion Of Harvested Rainwater Into Alternative Source Of Drinking Water RUI (Individual) USM (RU) RM133,489.00</li> <li>8. Evaluation Of Real Time Pore Water Pressure Distribution For Stability Analysis In Unsaturated Soil Slopes RUI (Individual) USM (RU) RM 187,100.00</li> <li>9. Exploratory Study On The Sustainable Sand Mining Activities Using ADCP, Resistivity Method And Sediment Transport RUI (Individual) USM (RU) RM150,000.00</li> <li>10. Study of Different Rainfall Characteristics on Rainwater Infiltration Mechanism Into Soil Slope Using 2-D Slope Model and Seepage Flow Model USM Jangka Pendek USM (JANGKA PENDEK) RM 40,000.00</li> <li>11. The Pump Sump Physical Model by Using Computational Fluid Dynamic (CFD) USM Jangka Pendek USM (JANGKA PENDEK) RM40,000.00</li> <li>12. The Study of Tunnel Seepage Water (TSW) As A Potential Source for Groundwater Characterization Across the Titiwangsa Main Range, Malaysia Skim Geran Penyelidikan Eksploratori (ERGS) KEMENTERIAN PENGAJIAN TINGGI RM110,000.00</li> <li>13. Real Time Pore Water Pressure Distribution Forecasting for Slope Stability Analysis Using Multi Tank Coupled with Seepage Flow Models Agensi Luar AUN / SEED - NET RM42,424.17</li> <li>14. Environmental Management Audit Of Hotel Industry in Malaysia, (RM 183,600) Dr Siti Nabiha Binti Abdul Khalid, Dr Azlan Bin Amran, Prof Madya Ismail Bin Abustan, Dr Mohd Hassan Bin Che Haat, Prof Madya Nabsiah Binti Abdul Wahid</li> <li>15. Environmental Forensics of Surface Water and Shallow Groundwater Contamination for Landfill Disposal Sites(Taiping&amp;Sg.Kembong-Semenyih) Using Integrated Isotopes Hydrology.,KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI, (RM 262500) , Syafalni, Ismail Bin Abustan, Rozi Bin Abdullah,</li> <li>16. Groundwater Potential in Kerian Irrigation Scheme by Using Isotopic Hydrological and Geophysical Techniques, KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI, (RM204,100.00) Syafalni, Ismail Bin Abustan, Norlida Mohd Dom</li> <li>17. Development Of A Model For Landslides In Malaysia, KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI, (RM300,000.00) Habibah Binti Lateh, Abdul Rahman Bin Othman, Bahari Bin Belaton, <b>Ismail Bin Abustan</b>, Tang Enya Kong, Zuhar Zahir Bin Tuan Harith (UTP)</li> <li>18. Reengineering Of Agricultural Praticce For The Improvement Of Padi Fields Farmers' Income In Nothern Corridor Economic Region, USM (RU), (RM858,900.00), Hamidi Bin Abdul Aziz @ Abdul Rahman, Ahmad Farhan Bin Mohd Sadullah, Ahmad Shukri Bin Yahaya, Aminuddin Bin Ab Ghani, Badorul Hisham Bin Abu Bakar, Choong Kok Keong, Fauziah Binti Ahmad, <b>Ismail Bin Abustan</b>, J. Jayaprakash, Lau Tze Liang, Leong Lee Vien, Mastura Binti Azmi, Md Azlin Bin Md. Said, Md Sayuti Bin Ishak, Megat Azmi Bin Megat Johari, Meor Othman Bin Hamzah, Mohamad Razip Bin Selamat, Mohd Nordin Bin Adlan, Mohd Sanusi Bin S. Ahamad, Mohd Suffian Bin Yusoff, Mustafasanie Bin M Yussof, Nor Azam Bin Ramli, Nor Azazi Bin Zakaria, Rozi Bin Abdullah, Shahrudin Shah Bin Zaini, Sharifah Akmam Binti Syed Zakaria, Taksiah</li> </ol>
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	<p>Binti A. Majid, Wan Muhd Aminuddin Bin Wan Hussin,</p> <p><b>19.</b> Environmental Management Audit Of Hotel Industry in Malaysia, (RM183,600.00), Siti Nabiha Binti Abdul Khalid, Azlan Bin Amran, <b>Ismail Bin Abustan</b>, Mohd Hassan Bin Che Haat, Nabsiah Binti Abdul Wahid.</p> <p><b>20.</b> Landslide Risk Assessment Model, Mitigation And Information Management - ICT Management In Landslide Hazard - Landslide Management, Information Dissemination And Policy, USM (RU), (RM999,999.00), Habibah Binti Lateh, Abdul Rahman Bin Othman, Adam Bin Baharum, Adnan Bin Hussein, Ahmad Shukri Bin Yahaya, Azrina Binti Husin, Bahari Bin Belaton, Fauziah Binti Ahmad, <b>Ismail Bin Abustan</b>, Jamilah Binti Ahmad, K Ramanathan A/L Kalimuthu, Khairiah @ Salwa Binti Mokhtar, Koay Swee Peng, Koh Hock Lye, Mohd Nawawi Bin Mohd Nordin, Norizan Binti Esa, Premalatha A/P Karupiah, Rahimi Binti Che Aman, Rosli Bin Saad, Ruslan Bin Rainis, Sharifah Norhaidah Binti S Idros, Tan Ewe Hoe, Tang Enya Kong, Teruki Fukuzono, Toshikazu Moroshi, Wan Mohd Muhiyuddin Bin Wan Ibrahim,</p>
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## TEACHING AND SUPERVISION

### Undergraduate Teaching/Post-Graduate Teaching

1. EAA 201/2 Laboratory for Concrete and Fluid Mechanic
2. EAH 221/3 Fluid Mechanics for Civil Engineering
3. EAH 224/3 Hydraulics
4. EAA 300/2 Laboratory for Hydraulics, Environmental and Geotechnical
5. EAH 323/4 Advance Water Resources
6. EAH 532 Stormwater Management (MSc Course)
7. EAV 516 Environmental Risk Management (MSc Course)
8. EAP 581 Water Supply Engineering (MSc Course)
9. EAP 582 Waste Water Engineering (MSc Course)
10. EAD 512 Sustainable Urban Drainage (MSc Course)

(b)

### Graduate Supervision

#### (i) Ph.D

1. IRNIS AZURA ZAKARYA Performance of Enterococcus Faecalis in the Production of Methane Using Single and Double Phase Reactors (supervisor)(Graduated)
2. NASIHER KHAN E.M. YAHYA, *Production of Rice Husk Activated Carbon for Improving Urban Dry Weather Flow Quality at Sungai Pinang Basin.* (supervisor)(Graduated)
3. KAMARUDIN SAMUDING, *Enhancement of Natural Local Soil to Minimize the Migration of Contaminants using Empty Fruit Bunch (EFB) in Taiping Landfill.* (supervisor) (graduated)
4. CHOONG WEE KANG, *Rainfall-Runoff Modelling in Gauged and Ungauged Urban Catchments using Urban Stormwater Model (USwM)* (supervisor) (graduated)
5. ESMAEIL KORDI *Free Transitional Expanding Hydraulic Jump an Abrupt Symmetrical Expansion* (supervisor)(Graduated)
6. MOHD AMINUR RASHID , *Developing A Probabilistic Flood Plain Boundary Using Hydraulic Model* (supervisor)(Graduated)
7. MOHD. ARIFF BIN AHMAD NAZRI *Integrated Methods Using Isotope And Geophysical Techniques For Shallow Ground Water - Water Losses Studies In Channel Irrigation System* (co-supervisor)(Graduated)
8. MUKHSIN ABU BAKAR (P-OD0007/08) *Development of Landslide Model in Humid Tropic* (Co-Supervisor) (Graduated)
9. NORLIDA BINTI MOHD DOM (P-WD0085 ) *Catchment Runoff For Urban Development: Interaction Between Water Quantity And Quality In Malaysian Urban Streams.* (supervisor)(Graduated)
10. TAMER MOUSA DIAB ALSLAIBI ,PhD, *Optimum use of renewable energy sources for Seawater desalination Case Study: Gaza Strip - Palestine,* (supervisor)(Graduated)
11. MOHD HAFIZ BIN ZAWAWI ,PhD, *Shallow Groundwater Contamination Study at Landfill Sites Using Integrated Geophysical, Hydrochemistry and Isotope Hydrology Techniques* (co-supervisor)(Graduated)
12. AZAMUDDIN BIN ARSAD (P-WD0115 ) , *Urban Water Restoration: Case Study of Sungai Kerayong* (supervisor)(Graduated)
13. MUHAMAD FAIZAL BIN PAKIR MOHAMED LATIFF (P-WD0094 ) *Development Of Bio-Media From Agricultural Waste To Improve Sullage Water Quality* (supervisor)(On going)
14. STEVEN POH TZE WEI (P-WD0127 ) *Flood Management in Low Lying Areas in Sungai Baru, Kedah* (co-supervisor)(On going)
15. YOUSEF MORADI SHAHGHARYEH HEIDARGHOLI '*Recovery of Zayendehrude River River Engineering Versus River Restoration* (co-supervisor)(On going)
16. MOHAMMAD S.M ABUJABALL (P-WD0184 ) PhD, *Impact of Anthropogenic Pollution on Shallow Groundwater in*

	<p>Urban Area, (supervisor)(On going)</p> <ol style="list-style-type: none"> <li>17. YOUSEF MORADI SHAHGHARYEH HEIDARGHOLI ,PhD, Analysing Complex Behaviour of Hydrological Systems of Captured Rivers (Case Study: Zayandehrude Dam Catchment, Iran), (co-supervisor)(On going)</li> <li>18. MAHYUN BINTI AB WAHAB (P-WD0163 ) ,PhD, Development of urban runoff characteristics in Perlis (supervisor)(On going)</li> <li>19. SALWA BINTI MOHD ZAINI MAKHTAR (P-WD0005/11(R) ) ,PhD, Ecohydrological Approach as a Tool for Managing Water Quality in Perlis (supervisor)(On going)</li> <li>20. NG SOON MIN ,PhD, Fluctuations Of Groundwater Table Evaluation For Slope Stability Forecasting Using Coupling Multi Tank Model And Numerical Analysis (co-supervisor)(On going)</li> <li>21. NOR AMIRAH BT ABU SEMAN @ HJ AHMAD (P-WD0010/12(R) ) ,PhD, Modelling and On-Site Installation Development of the Green Drainage System (GDS) (supervisor)(On going)</li> <li>22. ROSE FARAHNADRAH MUNAWAR PhD (P-WD0018/13(R) ) , Artificial Barrier Technique in Treating Potable Water in River Bank Filtration (supervisor)(On going)</li> <li>23. NUR ATIQA BINTI AHMAD AWALLUDDIN (P-WD0027/13(R) ) PhD, Developemnt of Water Recycle Treatment of Arawana Farms, (supervisor)(On going)</li> <li>24. NUR AZIEMAH BT ABD RASHID (P-WD0010/14(R) ) Sediment Removal Using Artificial Barrier in Riverbank Filtration (supervisor)(On going)</li> <li>25. MAHEERA BINTI MOHAMAD (P-WD0005/15(R) ) Minimization of Heavy Metals Migration in Landfill Leachate by Using Admixture of Natural Soil and Sugar Bagasse (supervisor)(On going)</li> <li>26. MUHAMMAD AZRAIE BIN ABDUL KADIR (P-WD0021/15(R) ) Flood Hazard Map Utilizing Public Domain Inundation Hydrological (FRM) and Hydraulic (HEC-RAS) Model and GIS (supervisor)(On going)</li> <li>27. ROSSITAH BINTI SELAMAT (P-WD0012/15(R) ) Controlling the Effective Bacterial (E-Coli) Growth by Using the Low Frequency Electromagnetic Fields on the Gray Water. (supervisor)(On going)</li> </ol> <p><b>(ii) Master of Science (Research)</b></p> <ol style="list-style-type: none"> <li>1. SITI RAHANIM BT MOHD RADZUAN (P-WM0213 ) <i>Water Seepage From The Main Irrigation Canal And Methods To Control</i> (supervisor)(Graduated)</li> <li>2. ALI TOLOOIYAN SHAHRI <i>New methods on using ceo-synthetic material</i> (supervisor)(GRADUATED).</li> <li>3. FAUZI BAHARUDIN <i>Determination of Rainfall -Runoff Characteristics In Urban Areas</i> (supervisor) (graduated)</li> <li>4. LEONG WENG CHIN <i>Urban stromwater management concept in urban</i> (supervisor) (graduated)</li> <li>5. MAHYUN AB. WAHAB <i>Urban Drainage modeling incoperation with GIS application</i> (supervisor).(graduated)</li> <li>6. MOHD ASHRAF ISMAIL <i>Slope Characteristic Study</i> (co supervisor; Gajah Mada University)(graduated)</li> <li>7. MOHD REMY ROZAINY MOHD ARIF <i>Urban Drainage CFD Modelling in Pump Hous</i> (supervisor) (graduated)</li> <li>8. SINA ALAGHMAND <i>Flood Hazard Zonation and Assessment of River Engineering Project on flood Control</i> (co-supervisor)( graduated)</li> <li>9. HANIZAN BINTI MUKHTAR , <i>Spatial and Temporal Rainfall Pattern in Pulau Pinang</i> (supervisor) (Graduated)</li> <li>10. MEHRAN GERANOURIMI, <i>Green Ampt Infiltration Parameter in Urban Catchment: Case Study of Sg. Kayu Ara, Selangor</i>, (supervisor)(Graduated)</li> <li>11. NG SOON MIN, <i>Stability of Embankment for New Diversion Channel During Flood Events</i> (supervisor) (Graduated)</li> <li>12. SAZALI B. OSMAN, <i>Development of Flood Estimation For Ungauged Catchments Using Clark Synthetic Unit Hydrograph Method</i>, (Supervisor) (Graduated)</li> <li>13. NUR ATIQA BINTI AHMAD AWALLUDDIN ,<i>Master(Research)</i>, <i>Time Series Water Quality Monitoring on Golden Arowana (Scleropages Formosus) Aquaculture Farm at Bukit Merah, Malaysia</i> (supervisor)(Graduated)</li> <li>14. HAJAR BINTI ABU BAKAR ,<i>Master(Research)</i>, <i>Disinfection of Clinical Waste Using Gamma Irradiator</i> (supervisor)(Graduated)</li> <li>15. ZAMZAMZURINA BINTI ZAINUN , <i>Modelling Of A River System Using Urban Storm Water Model (Uswm) Integrated With Gis For Urban Runoff Simulation</i> (supervisor)(On going)</li> <li>16. NIK MUHAMAD KAMIL BIN NIK GHAZLAN, <i>River Bank Filtration (RBF) A Natural Water Treatment Technology As A Potable Water: Case Study Jeli</i> (supervisor)(On going)</li> </ol>
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	<p>17. SYAMSUL AZLAN BIN SALEH (P-WM0005/14(R) ) Study on the Sustainable Sand Removal Capacity on Sand Mining Activities (supervisor)(On going)</p> <p>(iv) Master's Dissertation (Mixed Mode)</p> <ol style="list-style-type: none"> <li>1. MUHAMAD FAIZAL BIN PAKIR MOHAMED LATIFF, '<i>Development of rice husk based activated carbon for improving sullage water quality at Sungai Pinang River Basin</i>', (supervisor) (graduated)</li> <li>2. SITI HIDAYAH BINTI ABU TALIB, '<i>Study on the excess loading fertilizer at Kerian Agriculture Scheme</i>'(supervisor) (graduated)</li> <li>3. NURUL SYAKIRA BINTI SAMSURI, '<i>Study on loads of pesticide at Kerian Agricultural Scheme</i>'(supervisor) (graduated)</li> <li>4. MOHD ARIFF BIN AHMAD NAZRI, '<i>Estimation Dry Particulate Buildup on an urban road surface</i>'(supervisor) (graduated)</li> <li>5. IRFANA BINTI KABIR AHMAD <i>Removal of nutrient for leachate using constructed wetland</i> (supervisor) (graduated)</li> <li>6. MUNIZALIZA BINTI CHE YAZIZ <i>Impacts of development towards Tasik Chini in water quality</i> (supervisor) (graduated)</li> <li>7. NURULHUDA BINTI ABDUL MALIK <i>The impacts of water quality towards the eco-tourism at Tasik Chini</i> (supervisor) (graduated)</li> <li>8. ROSLAILI BINTI ABDUL AZIZ <i>Rehabilitation of landfill sites in Malaysia: Tanjung/Matang landfill</i> (supervisor) (graduated)</li> <li>9. TENGGU NOOR ARBAEE BINTI TG AZHAR <i>Determination of calorific value of selected local weeds for 'waste to wealth' program</i> (supervisor) (graduated)</li> <li>10. MOHD YUHYI MOHD TADZA <i>Application of Phytoremediation on Lanfill Surface Runoff</i> (graduated)</li> <li>11. MOHD RAZALI HUSAIN <i>Surface Water Quality Model (QUAL2E) for Case Study of Sungai Padang Terap, Kedah</i> (graduated)</li> <li>12. FAIRUS AHMAD <i>River Pollution A Case Study of Sungai Petani River</i> (graduated 2004)</li> </ol>
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#### INDUSTRIAL AND COMMUNITY LINKAGES (2008 onward)

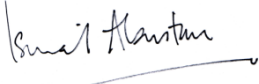
(a)	<ol style="list-style-type: none"> <li>1. Sustainable Sand Mining, Innovative Disaster Prevention Technology and Policy Research Lab., DPRI, Kyoto University, 2014, International</li> <li>2. Consumers and Water Issues Creating Change Agents among Youth (River for All), Division of Disaster Management for Safe and Secure Society., DPRI, Kyoto University, 2014, International</li> <li>3. HEC-RAS Application on Flood Mitigation Projects in Malaysia, Innovative Disaster Prevention Technology and Policy Research Lab, Disaster Prevention Research Institute (DPRI), Kyoto University, 2014, International</li> <li>4. EXTREME WEATHER AND ADAPTATION IN OUTHEAST ASIA, ASEAN Academic Networking in Water Disaster Management and Climate Change, ASEAN Academic Networking, JICA and Chulalongkorn University, 2014</li> <li>5. EXTREME WEATHER AND ADAPTATION: FLOOD MITIGATION IN COASTAL AREA, Guest Lecture for Department of Civil Engineering, Faculty of Engineering, Universiti Andalas, Fakultas Kejuruteraan, Universiti Andalas, Padang, Indonesia, 2014, International</li> <li>6. Sustainable Development and Green Markets : An Engineering Perspective, Guest Lecture for Sustainable Development and Green Markets, Dharma Andalas, Padang, 2014, International</li> <li>7. EXTREME WEATHER AND ADAPTATION IN SOUTHEAST ASIA, Guest Speaker for Department of Civil Engineering, Faculty of Engineering, Mercu Buana University, Jakarta, 2014, International</li> <li>8. KEM PEMIMPIN MUDA PRIHATIN AIR: SUMBER AIR, KEM PEMIMPIN MUDA PRIHATIN AIR PERINGKAT KEBANGSAAN (ZON TENGAH) PADA 19-21 OGOS 2014, UNESCO-MIHP, 2014, National</li> <li>9. KEM PEMIMPIN MUDA PRIHATIN AIR : SUMBER AIR HAK BERSAMA, Kem Pemimpin Muda Prihatin Air Peringkat Kebangsaan (Zon Selatan) 2014, UNESCO-MIHP, 2014, National</li> </ol>
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	<ol style="list-style-type: none"> <li>10. Experimental Examination of the Initial and Constant Loss for Peninsular Malaysia, GCOE-ARS FINAL SYMPOSIUM 2013 SUSTAINABILITY SCIENCE FOR SURVIVABLE SOCIETIES COPING WITH EXTREME WEATHER AND WATER CONDITIONS, DPRI, Kyoto University, Japan, 2013, International</li> <li>11. WEATHER RADAR APPLICATION : THE POSSIBILITY OF EMPLOYING EXISTING DATA FOR FLOOD FORECASTING, AUN/SEED-Net's Special Research Program for Disaster Prevention and Mitigation (SDM)., JICA- AUNSeed Net, 2013, International</li> <li>12. Study On The Sustainable Sand Removal / Mining Capacity, UNESCO-IHP and Malaysian Hydrological Society Technical Talk, MIHP, 2013, National</li> <li>13. Pengurusan Sedimen Sungai, Technical Talk UNESCO-MIHP, UNESCO-MIHP, 2013,</li> <li>14. EXPERIMENTAL AND NUMERICAL SIMULATION OF FLOW CHARACTERISTICS IN A PUMP SUMP MODEL, SEMINAR ON PHYSICAL MODELLING ON APPLICATIONS AND TECHNOLOGY (PHYMAT) 2012, MOA Nahrim, 2012, National</li> <li>15. DEVELOPMENT AND EVALUATION OF DEBRIS AND MUDFLOW WARNING MODEL IN HIGH RISK AND HILLY SLOPES IN MALAYSIA, The Reginal Conference on GeoE 12-13 March, 2012 in Vientiane, AUNSEED Net - JICA, 2012, International</li> <li>16. Flood Experiences in Malaysia, Flood and Earthquake Disaster Management and Community, JICA-Chulalongcorn University, 2012, International</li> <li>17. Regional flood frequency analysis in the West Coast of Peninsular Malaysia using the L-moments approach , the 5th AUN/SEED-Net Regional Conference on Geo-disaster Mitigation in the ASEAN, AUNSEED Net JICA, 2012, International</li> <li>18. Flood experiences in Malaysia, Seminar on Flood and Earthquake Disaster Management and Community, in Bangkok, Chulalongkorn University and JICA, 2012, International</li> <li>19. Extreme weather and adaptation in southeast Asia, Symposium on GCOE-ARS, Kyoto University, Kyoto University, 2012, International</li> <li>20. Disaster Reduction Hyperbase (DRH) Workshop at Kyoto University, Japan on March 24-25, 2011, , Kyoto University, 2011, International</li> <li>21. The 4th AUN/SEED-Net Regional Conference on Geo-Disaster Mitigation in ASEAN , , AUN-Seed Net JICA, 2011, International</li> <li>22. JICA-AUN/SEED-Net Seminar on Disaster Prevention and Mitigation--Learning from the Experience of the Great East Japan Earthquake for Better Disaster Preparedness in East Asia , JICA-AUN/SEED-Net, 2011, International</li> <li>23. Invited Speaker EXPERIMENTAL AND NUMERICAL SIMULATION OF FLOW CHARACTERISTICS IN A PUMP SUMP MODEL, SEMINAR ON PHYSICAL MODELLING ON APPLICATIONS AND TECHNOLOGY (PHYMAT) 2012, MOA Nahrim, 2012, National</li> <li>24. Invited Speaker DEVELOPMENT AND EVALUATION OF DEBRIS AND MUDFLOW WARNING MODEL IN HIGH RISK AND HILLY SLOPES IN MALAYSIA, The Reginal Conference on GeoE 12-13 March, 2012 in Vientiane, AUNSEED Net - JICA, 2012, International</li> <li>25. Invited Speaker Flood Experiences in Malaysia, Flood and Earthquake Disaster Management and Community, JICA-Chulalongcorn University, 2012, International</li> <li>26. Invited Speaker Regional flood frequency analysis in the West Coast of Peninsular Malaysia using the L-moments approach , the 5th AUN/SEED-Net Regional Conference on Geo-disaster Mitigation in the ASEAN, AUNSEED Net JICA, 2012, International</li> <li>27. VFlood experiences in Malaysia, Seminar on Flood and Earthquake Disaster Management and Community, in Bangkok, Chulalongkorn University and JICA, 2012, International</li> <li>28. VExtreme weather and adaptation in southeast Asia, Symposium on GCOE-ARS, Kyoto University, Kyoto University, 2012, International</li> <li>29. Invited Speaker Program Latihan River Ranger Training of Trainer Sg Pinang " River Care Programme,24/7/2011- 24/7/2011</li> <li>30. Presenter ,Pameran Sempena Majlis Pelancaran Sg Pinang " River Care Programme,15/7/2011- 15/7/2011</li> <li>31. Coordinator ,Bengkel "Water for Woman" Sempena Hari Air Sedunia 2011,11/3/2011- 11/3/2011,</li> </ol>
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	<p>32. Presenter ,Pameran Sempena Hari UNESCO Peringkat Malaysia,18/11/2011- 19/11/2011</p> <p>33. Participant , Bengkel Kesedaran Tentang Hak dan Keperluan Orang Kurang Upaya (OKU) &amp; Rekabentuk Sejagat,20/12/2011- 22/12/2011</p> <p>34. Coordinator , “River for All”, River Expedition 2011,28/10/2011- 31/10/2011</p> <p>35. National Committee ,National Committee for 2011 World Water Day,1/1/2011- 23/3/2011</p> <p>36. Invited Spaecker for “Sg Sedim Sungai Pinang River Expidition Capacity Building “River is Love”, SKUM-USM-UNESCO-IHP, 30 July – 2 August 2010</p> <p>37. Invited Spaecker for “Sg Sedim Sungai Pinang River Expidition Capacity Building “River is Life”, SKUM-USM-UNESCO-IHP, 21 June – 24 June 2009</p> <p>38. Invited Spaecker for “Sg Sedim Sungai Pinang River Expidition Capacity Building “River for Keeps”, SKUM-USM-UNESCO-IHP, 14 June – 17 June 2009</p> <p>39. Visiting Professor at Disaster Prevention Reseach Institute, Kyoto University, Kyoto Japan, 1 Aug. 2008 to 1 Jan. 2009</p> <p>40. Visiting Scholar/Fellow at the UNESCO-Humid Tropic Center, Kuala Lumpur, Malaysia, 2 Jan. 2009 to 31 April 2009.</p> <p>41. Visiting Researcher to King Abdul Aziz University / Mina Landfill Study, Mekah, Saudi Arabia, 19 to 26 June 2008 (sponsored by Haj Cluster and Waste Management Cluster)</p> <p>42. Visiting Fellow and Scientific Visit to Kyoto University and Disaster Prevention Research Institute, Kyoto, Japan, 25 Feb to 7 Mar 2007 (fully sponsor by JICA)</p> <p>43. MRCB Bhd.and Adafsa Sdn. Bhd Pump Sump Model Test for Sungai Perai Pump House, Perai, Pulau Pinang (Project Leader) (RM 90,000.00)</p> <p>44. JPS Malaysia and Synergy Prestige Sdn. Bhd Pump Sump Model Test for Pendiak Pump House, Daerah Perak Tengah, Perak, (Project Leader) (RM 80,000.00)</p> <p>45. JPS-Bumi PCB (M) Sdn. Bhd. Physical Model testing of Rumah Pam Sistem Saliran Bandar Pasir Mas, Kelantan (Project Leader) (RM 75.000.00)</p> <p>46. JPS Malaysia dan Wira Kerjaya Sdn Bhd, Contract Research : Pump Sump Model Test for Sg Muda Flood Mitigation Project , (Project Leader) (RM 282000.00)</p> <p>47. JPS-CLINET Sdn. Bhd. Contract Research : Pump Model test for Tebatan Bajir Lembah Kelang (Kelang Valley Flood Mitigation Project), (Project Leader) (RM 170,000.00)</p> <p>48. Pembangunan Semula Prosidur Hidrologi No.5, ‘Rational Method of Flood Estimation for Rural Catchments in Peninsular Malaysia’, JPS, Kuala Lumpur, (RM206,000)</p>
	<p>1. Technical Advisor for Galas Engineering Sdn. Bhd. (2007 – present)</p> <p>2. Technical Advisor for ARMI Consultant Sdn. Bhd.(2009 - present)</p> <p>3. Technical Advisor for Jurutera Nusantara Bersekutu Sdn. Bhd. (2001 - present)</p> <p>4. Technical Advisor for UniSc. Sdn Bhd (2005 - present)</p>

I declare that all the information given in this form is true. The University has the right to withdraw or reject the application if any information in this form is found to be false.

Signature :  \_\_\_\_\_

Name : **ISMAIL BIN ABUSTAN**

Department : **SCHOOL OF CIVIL ENGINEERING**

**Date** : **01 December 2015**