



PART I

Personal Particulars

Name : Prof. Dr. Hamidi Abdul Aziz

Nationality : Malaysian

Age: 53

Current Position : Professor, School of Civil Engineering, Universiti Sains Malaysia (USM)

Qualification : Ph.D.

Field of specialization : Environmental Engineering (Solid Waste Management, landfill technology, water and wastewater engineering, noise pollution)

Researcher profile: Researcher ID: F-6836-2010, Total citation 2868, h-Index 31, Number of ISI paper: 194, Average Citations per per Article: 16.58. Scopus ID: 7005960760, Total citation 3448, h-Index 32, Number of paper: 197, Average Citations per Article: 17.50. ResearchGate: Total citation 4707, h-Index 38, number of paper: 359, RG Score 39.87. ORCHID ID: 0000-0001-6287-0560 (All as of 17 April 2018)

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PART II

Working Experience

Year	Post	Field	Organization
1992-2000	Lecturer	Environmental Engineering.	USM
2000-2007	Associate Professor	Environmental Engineering	USM
2007 to date	Professor	Environmental Engineering	USM

PART III

1.0 RESEARCH AND PUBLICATION

1.1 Research Publications

a) Research book/monograph

1. **Aziz, H.A.** Integrated Solid Waste Management: Towards Sustainable Development (In Malay). Universiti Sains Malaysia Publisher, 2009. ISBN 978-983-861-401-6.
2. **Aziz, H.A.** (1992), 'A study on the removal of manganese from water in the presence of course media', Ph.D. thesis, Department of Civil Engineering, University of Strathclyde, UK, 252 pages.
3. **Aziz, H.A.** (1999), 'Wastewater Engineering: Quality of water and wastewater (In Malay)', Utusan Publication, ISBN 9676110159, 119 pages.
4. **Aziz, H.A.** (1999), 'Wastewater Engineering: Treatment Plant Design (In Malay)', Utusan Publication, ISBN 9676110205, 267 pages.
5. **Aziz, H.A.** (2007), 'Noise Pollution: Theory, Sources, Legislation and Control' (In Malay), USM Publisher 2009, 253 pages.
6. Aziz, H.A., Abu Amr, S.S. (Editor), Book title: Control and Treatment of Landfill Leachate for Sanitary Waste Disposal. In the Advances in Environmental Engineering and Green Technologies (AEEGT) book series, Publisher: IGI Global, ISBN13: 9781466696105 ISBN10: 1466696109, EISBN13: 9781466696112, DOI: 10.4018/978-1-4666-9610-5 In 2015.
7. **Aziz, H.A.**, Mojiri, A. (Editors). Wastewater Engineering: Advanced Wastewater Treatment Systems, International Journal of Scientific Research Books, IJSR Publications, 2013, ISSN: 2322-4657
8. Aziz, Q.A., **Aziz, H.A.**, Yusoff, M.S.: Landfill Leachate Treatment Using Sequencing Batch Reactor Process. First 01/2012; LAMBERT Academic Publishing., ISBN: 978-3-8484-0365-3
9. Bashir, M.J.K., Aziz, H.A., Yusoff: Mature Municipal Landfill Leachate Treatment: Ion Exchange Practic. First 01/2012; LAP LAMBERT Academic Publishing, Germany., ISBN: ISBN-13: 978-3846584033
10. **Hamidi Abdul Aziz**, 2009, Pengurusan Sisa Pepejal Bersepadu: Ke arah Pembangunan Mapan, Universiti Sains Malaysia, ISBN: 9789838614016.
11. Nor Azam Ramli, Ahmad Farhan Mohd. Sadullah, **Hamidi Abdul Aziz**, Badorul Hisham Abu Bakar, Ismail Abustan, Leong Lee Vien, Mohamad Razip Selamat, Megat Azmi Megat Johari, Wan Hashim Wan Ibrahim,, 2007, Abstrak AWAM 2007, Universiti Sains Malaysia, 152
12. Nor Azam Ramli, Ahmad Farhan Mohd. Sadullah, **Hamidi Abdul Aziz**, Badorul Hisham Abu Bakar, Ismail Abustan, Leong Lee Vien, Mohamad Razip Selamat, Megat Azmi Megat Johari, Wan Hashim Wan Ibrahim, 2007, Kejuruteraan Awam 50 Tahun Selepas Kemerdekaan, Pusat Pengajian Kejuruteraan Awam, Universiti Sains Malaysia, 1020
13. Omran, A., **Aziz, H.A.**, Gavrilescu, M., Schiopu, Ana-M. Landfill-Ultimate waste management technique, Faculty of Engineering, University of Sam Ratulangi Manado, Indonesia, 2011, 152 pages
14. Umar, M., **Aziz, H.A.**, Yusoff, M.S., 2011, The effects of chlorination on landfill leachate, LAP LAMBERT Academic Publishing GmbH & Co., 131

b) Journal

1. A. Omran, A. Mahmood, **H. Abdul Aziz**: New Method for Industrial Water Reuse and Energy Minimization, IJER International Journal of Environmental Research, Article 14, Volume 3, Issue 2, Spring 2009, Page 289-300.
2. Abdullah, N. **Aziz, H.A.**, Yusuf, N.N.A.N., Umar, M., Amr, S.S.A., Potential of KMnO₄ and H₂O₂ in treating semi-aerobic landfill leachate, Applied Water Science, 4, 2014, 303-309
3. Abu Amr, S.S., **Aziz, H.A.** New treatment of stabilized leachate by ozone/Fenton in the advanced oxidation process (2012) Waste Management, 32 (9), 1693-1698.
4. Abu Amr, S.S., **Aziz, H.A.** & Bashir, M.J.K. Application of response surface methodology (RSM) for optimization of semi-aerobic landfill leachate treatment using ozone, Appl Water Sci (2014), 4 (3), 231–239 doi:10.1007/s13201-014-0156-z
5. Abu Amr, S.S., **Aziz, H.A.** and Bashir, M.J.K., Application of response surface methodology (RSM) for

optimization of semi-aerobic landfill leachate treatment using ozone, <i>Applied Water Science</i> , 4 (3), 2014, 231-239
6. Abu Amr, S.S., Aziz, H.A. and Bashir, M.J.K., Performance of Ozone Reactor in Treating Stabilized Landfill Leachate: Efficiencies and Limitations, <i>International Journal of Applied Environmental Sciences</i> , 2 (8), 2014, 362-369
7. Abu Amr, S.S., Aziz, H.A. Bashir, M.J.K., Aziz, S.Q., Alsiaibi, T.M. Comparison and Optimization of ozone – Based Advanced Oxidation Processes in The Treatment of Stabilized Landfill Leachate (2015) <i>Journal of Engineering Research and Technology</i> , Volume 2, Issue 2, 122-130.
8. Abu Amr, S.S., Aziz, H.A. , Adlan, M.N., 2013. Optimization of stabilized leachate treatment using ozone/persulfate in the advanced oxidation process, <i>Waste Management</i> , In Press, Corrected Proof, Available online 14 March 2013, DOI: 10.1016/j.wasman.2013.01.039.
9. Abu Amr, S.S., Aziz, H.A. , Adlan, M.N., Alkaseh, J.M.A., 2013. Effect of Ozone and Ozone/Persulfate Processes on Biodegradable and Soluble Characteristics of Semiaerobic Stabilized Leachate, <i>Environmental Progress & Sustainable Energy</i> , 33 (1), 184-191
10. Abu Amr, S.S., Aziz, H.A. , Adlan, M.N., Aziz, S.Q., 2013. Effect of Ozone and Ozone/Fenton in the Advanced Oxidation Process on Biodegradable Characteristics of Semi-aerobic Stabilized Leachate, <i>Clean-Soil, Air, Water</i> , 41 (2), 148-152.
11. Abu Amr, S.S., Aziz, H.A. , Adlan, M.N., Bashir, M.J.K., 2013. Optimization of semi-aerobic stabilized leachate treatment using ozone/Fenton's reagent in the advanced oxidation process, <i>Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances and Environmental Engineering</i> , 48, 720-729.
12. Abu Amr, S.S., Aziz, H.A. , Adlan, M.N., Bashir, M.J.K., 2013. Pretreatment of stabilized leachate using ozone/persulfate oxidation process, <i>Chemical Engineering Journal</i> , 221, 492-499.
13. Abu Amr, S.S., Aziz, H.A., Bashir, M.J.K. Performance of Ozone Reactor in Treating Stabilized Landfill Leachate: Efficiencies and Limitations, <i>International Journal of Scientific Research in Knowledge</i> , 2(8), pp. 362-369, 2014.
14. Abu Amr, S.S., Aziz, H.A. , Hossain, M.S., Bashir, M.J.K. Simultaneous removal of COD and color from municipal landfill leachate using Ozone/Zinc Sulphate oxidation process, <i>Global NEST Journal</i> , 2017, Vol 19, No 3, pp 498-504
15. Abu Amr, S.S., Mayla, Y.S.A., Bashir, M.J.K., Aziz, H.A. Public Participation and Response Towards Water Resources Management Options in Gaza Strip, Palestine. <i>Applied Mechanics and Materials</i> Vol. 802 (2015) pp 581-586.
16. Abu Amr, S.S., Zakaria, S.N.F., Aziz, H.A. Performance of combined ozone and zirconium tetrachloride in stabilized landfill leachate treatment (2017) <i>Journal of Material Cycles and Waste Management</i> , 19(4), pp. 1384-1390.
17. Abu Amr, S.S., Zakaria, S.N.F., Aziz, H.A. Performance of combined ozone and zirconium tetrachloride in stabilized landfill leachate treatment (2017) <i>Journal of Material Cycles and Waste Management</i> , 19(4), pp. 1384-1390.
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19. Abujayyab, S.K.M., Ahamad, M.S.S., Yahya, A.S., Bashir, M.J.K., Aziz, H.A. GIS modelling for new landfill sites: Critical review of employed criteria and methods of selection criteria (2016) <i>IOP Conference Series: Earth and Environmental Science</i> , 37 (1), art. no. 012053, DOI: 10.1088/1755-1315/37/1/012053.
20. Abujayyab, S.K.M., Ahamad, S.S., Yahya, A.S., Ahmad, S.Z., Alkhasawneh, M.S., Aziz, H.A. Quantitative workflow based on NN for weighting criteria in landfill suitability mapping, <i>AIP Conference Proceedings</i> 1892, 130004 (2017); doi.org/10.1063/1.5005760
21. Abujayyab, S.K.M., Omar, N.Q., Aziz, H.A. , Ahamad, M.S., Yahya, A.S., Alkhasawneh, M.S., Ahmad, S.Z. Hybrid neural network: A computational intelligent model for solid waste landfilling suitability mapping (2017) <i>Journal of Engineering and Applied Sciences</i> , 12 (11), pp. 2788-2794
22. Abujayyab, S.K.M., Omar, N.Q., Aziz, H.A. , Ahamad, M.S., Yahya, A.S., Alkhasawneh, M.S., Ahmad, S.Z. Hybrid neural network: A computational intelligent model for solid waste landfilling suitability mapping (2017) <i>Journal of Engineering and Applied Sciences</i> , 12 (11), pp. 2788-2794.
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26. Adlan, M.N., Aziz, H.A. , Asaari, F.A.H., Ahamad, M.S.S., Ibrahim, M.I.M., Murshed, M.F. (2004), <i>Water Quality Assessment For Tasik Harapan, Universiti Sains Malaysia</i> , Ecomod, September, 2004 (annually, Regional).
27. Adlan, M.N., Aziz, H.A. , Maung, H.T., Hung, Y.-T. Performance of horizontal flow roughing filter using limestone media for the removal of turbidity, suspended solids, biochemical oxygen demand and coliform organisms from wastewater (2008) <i>International Journal of Environment and Waste Management</i> , 2 (3),

203-214.
28. Adlan, M.N., Aziz, H.A. , Omar, N.M., Sham, N.F.M. Assessment of Vertical up-flow Limestone Roughing Filter for the Treatment of Domestic Wastewater, Thai Environmental Engineering Journal : Special Vol. January-April 2012 : 19-23.
29. Adlan, M.N., Hamir, R., Aziz, H.A. , Isa, M.Y.M. (2000), 'The effects of demography and religion on domestic water consumption in Kinta, Malaysia', Special Issue, Al-Azhar University Engineering Journal, Faculty of Engineering, Al-Azhar University, Vol. 4, pp54-62 (annually).
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32. Aghamohammadi, N., Aziz, H.A. , Isa, M.H., Zinatizadeh, A.A., Nasrollahzadeh Saravi, H., Ghafari, Sh. Performance of a powdered activated carbon (PAC) augmented activated sludge process treating semi-aerobic leachate (2007) International Journal of Environmental Research, 1 (2), 96-103.
33. Ahmad Zamri, M.F.M., Yusoff, M.S. and Aziz, H.A. , The Study of Flocculant Characteristics for Land fill Leachate Using Starch Based Flocculant from Durio Zibethinus Seed, Advances in Environmental Biology, 8 (15), 2014, 129-135
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42. Aljuboury, D..D.A., Palaniandy, P., Aziz, H.B.A. , Feroz, S. Comparison and performance of petroleum wastewater treatment using photocatalytic TiO ₂ , photo Fenton, TiO ₂ /Fenton and TiO ₂ /Fenton/ZnO processes. Water Resources and Industry 02/2016; DOI:10.1016/j.wri.2016.02.003
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74. Aziz, H.A. , Adlan, M.N., Perwira, M., Asaari, F.A.H., Basri, D.R., Yusoff, M.S. (2000), 'Removal of Cu, Pb and Zn from synthetic industrial wastewater using adsorption media-comparative study between activated carbon and limestone particle', Special Issue, Al-Azhar University Engineering Journal, Faculty of Engineering, Al-Azhar University, Vol. 4, pp33-40 (annually).
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2. Aljuboury, D.A.D.A., Palaniandy, P., Aziz, H.B.A. , Feroz, S. New Treatment of petroleum wastewater using the combination of solar photo-three catalysts ZnO, TiO ₂ and photo-Fenton process, Chapter 3 in Advances in Chemistry and Chemical Engineering, Viveka Nand Publication Department, India (In Press).
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g) Mass media
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h) Publications Related to Teaching
(i) University Textbooks
1. Aziz, H.A. (1994), 'Introduction to Environmental Science: Environmental Science and You – Introduction, damaging activities and conservation aspects', Module 1 (In Malay), First Edition, School of Distance Learning Publisher, USM, 131 pages.
2. Aziz, H.A. (2003), 'EAP 313/2 Teaching Portfolio Document', School of Civil Engineering, USM, 150 pages
(ii) Chapter in University Textbook
1. Aziz, H.A. (1995), 'Environmental Engineering II', JAP 411, Laboratory Manual (In Malay), First Edition, School of Distance Learning Publisher, USM, 27 pages.
2. Aziz, H.A. (1995), 'Introduction to Environmental Science: Water and Wastewater in Environment – Quality and Diseases Aspects', Module 2 (In Malay), First Edition, School of Distance Learning Publisher, USM, 63 pages.
3. Aziz, H.A. (1997), 'Laboratory Manual', JAH112-Module 3 (In Malay), First Edition, School of Distance Learning Publisher, USM, 36 pages.
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15. Aziz, H.A. (2006). 'Laboratory manual for Water and Wastewater Engineering', EAP582, First Edition, School of Civil Engineering, USM, 25 pages.
16. Aziz, H.A. Lecture Note: 'EAH 312-Industrial wastewater' (In Malay), 151pp.
17. Aziz, H.A. Lecture Note: 'EAH 415-Advanced Public Health Engineering & EAP 312-Advanced Environmental Engineering' (In Malay), 71pp.
18. Aziz, H.A. Lecture Note: 'JAH 413-Pollution and Environmental Conservation' (In Malay), 8pp.
19. Aziz, H.A. Lecture Note: JAA 471-'Building Services-Sanitation in Building' (In Malay), 44pp.
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1.2 RESEARCH GRANTS
a) International grant
1. Bio-regenerative Treatment of High-Strength Wastewater using Bio-Fringe and White Jute (Corchorus

capsularis) Fibers, International Foundation for Science IFS Grant No.AW/21861 (Ref: No. W/5073-1), RM35000, 19/12/2011-19/12/2011 (Co-researcher)
2. Comparative Health Risks Evaluation due to the Micro Environmental Pollutants, International Cooperation Study between Japan, Malaysia (USM) and India, sponsored by the Japan Society for the Promotion of Science, Japanese Government. Chief researcher: Professor Shinsuke Morisawa, Kyoto University Grant-in-Aid for Scientific Research No. 11691150, 1999 to 2001 (Co-researcher)
3. Investigation for greenhouse gas reduction project using semi-aerobic landfill system in Malaysia: phase 2, Tokyu Construction Co. Ltd., Japan, Tokyo, RM10,000.00, (Principal Investigator), 2010
4. Investigation of landfill gas at Ampang Jajar landfill, Joint research with Fukuoka University, RM13,000, January-December 2012 (Principal Investigator)
5. Preliminary investigation for greenhouse gas reduction project using semi-aerobic landfill system in Malaysia, Tokyu Construction Co. Ltd., Japan, Tokyo, RM24,000.00, (Principal Investigator), 2008
6. Proposal for geophysical study (2-d electrical imaging and transient electromagnetic method (TEM) at the closed Mina landfill, Makkah (head). In kind. (Co-researcher), 2013
7. 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, RM281,750, 1/5/2010-31/10/2013 (Co-Researcher)
8. The Proposed Design and Tendering for the New Phase of Landfill at Kakia Disposal Site-Phase 1 , Mayor Of Makkah , RM486,000 1/5/2010-31/10/2013 (Principal Investigator)
b) Completed
1. A study on bubble rising velocity in the reaction zone of dissolved air flotation tank using laboratory model. , Ministry Of Higher Education Malaysia (MOHE) Grant, RM44,000.00, 1/5/2010-30/4/2012 (Co-researcher)
2. A Study On The Use Of Dissolved Air Flotation Process For The Treatment Of Leachate From Landfill Site. Science Fund 03-01-05-SF0099, Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM249,296.00, 1/12/2006-1/4/2009 (Co-Researcher)
3. A Study on the Use of Dissolved Air Flotation Process for the Treatment of Low pH Water , USM Short Term Grant, RM20,000.00, 15/9/2006-14/9/2008 (Co-researcher)
4. A Two Steps Landfill Leachate Treatment Potential Studies Using Activated Carbon, Bentonite-Chitosan and Anionic-Cationic Surfactant-Modified Zeolite (ACSMZ), Science Fund 03-01-05-SF0485, Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM232,500, 01/01/12-31/12/13 (Co-Researcher).
5. Adsorption potential of palm by-product for water and wastewater treatment, USM Short Term Grant, RM19,028.00, September 2002-August 2003 (Co-researcher)
6. Appraisal of landfill leachate treatment by using composite fibers, RM119,200, ERGS Grant, Ministry Of Higher Education Malaysia, 2011-2013 (Principal Investigator)
7. Appraisal of landfill leachate treatment by using composite fibers, RM119,200, ERGS Grant, Mosti, 2011-2013
8. Bioremediation of Crude Oil Hydrocarbons in Coastal Sediments , USM Short Term Grant , RM18,744, 1/6/2006-31/5/2008 (Principal Investigator)
9. Characterization and Degradation Of Prawn - Pond Wastewater at Influent and After Oxidation and Post Treatment by Low Cost Composite Media , Ministry Of Higher Education Malaysia (MOHE) , RM86,600.00, 1/11/2008-31/10/2011 (Principal Investigator)
10. Characterization Semi - Aerobic Landfill Leachate Based on its Biodegration , Ministry Of Higher Education Malaysia (MOHE) , RM80,000.00, 15/10/2007-15/10/2010 (Principal Investigator)
11. Coagulation and Flocculation of Semi-Aerobic Leachate in Removing COD, Ammonia, Colour and Suspended Solids , USM Short Term Grant , RM18,428, 1/6/2005-31/5/2007 (Principal Investigator)
12. Collection and analyses of solid waste disposal for 9 major towns in Malaysia: Towards a better management, USM Short Term Grant Grant, RM12,445, November 1993-May 1996 (Principal Investigator).
13. Comparative study on the quality of garden waste compost, RM 18,819.25, 2004-2006
14. Composition Study And Use Sludge from Water Treatment Plant For Materials, USM Short Term Grant, RM20,000, Mohd Nordin Bin Adlan , 1/3/2002-30/6/2003 (Co-researcher)
15. Composition Study And Use Sludge from Water Treatment Plant For Materials, USM Short Term Grant, RM20,000.00, Faridah Binti Abu Hassan Asaari , 1/11/2001-28/2/2003 (Co-researcher)
16. Composting of municipal solid waste, RM19,568, 2003-2005 (Co-researcher)
17. Control of algae in oxidation pond with copper sulphate and alum-laboratory study, USM Short Term Grant, RM19,965.72, September 2002-August 2003 (Co-researcher)
18. Degradation Of Municipal Solid Waste In A Properly Designed Sanitary Landfill Subjected To Local Conditions , RM7 , RM271,100.00, Dini Ramya Bt. Hasan Basri , 1/7/1996-31/1/2001 (Co-researcher)
19. Development and Recovery of A New Material of Municipal Solid Waste Leachate Treatment - Case Study at Pulau Burung Landfill , USM Short Term Grant , RM18,680, 15/8/2006-14/6/2009 (Principal Investigator)
20. Development of a hybrid system for landfill leachate treatment, Science Fund 03-02-02-SF0132 (UTP), Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM306,200, 01/01/10-31/12/11 (Co-Researcher).
21. Development of a new material for municipal solid waste leachate treatment -Case study at Pulau Burung landfill., USM Short Term Grant, RM18900, 2006-2007 (Principal Investigator).

22.	Development Of A New Material For Municipal Solid Waste Leachate Treatment -Case Study At Pulau Burung Landfill. , Science Fund 03-01-05-SF0485, Ministry of Science, Technology and Innovation Malaysia (MOSTI), 187,095.00, 1/12/2006-30/11/2008 (Principal Investigator)
23.	Development of A Novel Modified Hybridized Anaerobic Inclining-Baffled (MHAI-B) Bioreactor for High-Rate Anaerobic Digestion of Pulp and Paper Mill Wastewater , USM (RU) , RM224,553.00, Irvan Dahlan , 1/12/2011-30/11/2014 (Co-researcher)
24.	Development Of A Physio-Chemical Treatment System For A Semi-Aerobic Leachate From Domestic Solid Waste Landfill-Case Study At Pulau Burung Landfill Site (PLBS) , RM8 - EA , Ministry Of Higher Education Malaysia, RM203,572.00, 1/9/2002-31/8/2005 (Principal Investigator)
25.	Development Of A Pilot For Removing Heavy Metals (Hg, Pb, Zn, Cu, Ni, Mn, Cd and Cu) From Waste Water Using Low Cast Media. , RM7 , RM348,768.00, 1/7/1996-30/9/2000 (Principal Investigator)
26.	Development of a Pilot Plant for Production of a New Material in Treating Municipal Solid Waste Leachate Treatment , Ministry Of Higher Education Malaysia (MOHE) , RM366,000.00, 1/11/2011-30/10/2013 (Principal Investigator)
27.	Development of a Pilot Plant for Production of a New Material in Treating Municipal Solid Waste Leachate Treatment , Ministry Of Higher Education Malaysia (MOHE) , RM366,000.00, 1/11/2011-30/10/2013
28.	Development of a pilot plant for production of new material in treating municipal solid waste leachate treatment, Prototype Resaech Grant Scheme, Ministry Of Higher Education Malaysia, RM366,000, December 2011-November 2013 (Principal Investigator)
29.	Development Of An Appropriate Air Nozzle And Pilot Plant Studies Of Dissolved Air Flotation For Water And Wastewater Clarification , RM8 - EA , Ministry Of Higher Education Malaysia (MOHE), RM245,800.00, Mohd Nordin Bin Adlan , 1/9/2002-31/8/2005(Co-researcher)
30.	Development of an environmental data acquisition system for use in an Intelligent Transportation System (ITS), IRPA Long Term Grant, RM120,000, November 1999-October 2001 (Co-researcher)
31.	Development of dissolved air flotation pilot plant for the treatment of paper mill wastewater, Science Fund 03-01-05-SF0561, Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM495,093, 01/01/10-31/12/11 (Co-Researcher).
32.	Development of Durio zibethinus Seed Starch as Novel Natural Coagulant for Landfill Leachate Treatment , USM (RU) , RM197,000.00, 15/7/2012-14/7/2015 (Co-researcher)
33.	Development of Sprayer Nozzle of the Saturator for Dissolved Air Flotation Process , USM Short Term Grant, RM20,000.00, Mohd Nordin Bin Adlan , 1/10/2005-30/9/2007 (Co-researcher)
34.	Development of Waste-Derived Siliceous Materials as a Sorbent for Dye and Heavy Metal Removal , USM Short Term Grant, RM35,310.00, Irvan Dahlan , 1/5/2010-30/4/2012 (Co-researcher)
35.	Efficiency of Ion-Exchange Resin to Remove Organic Materials from Semi-Aerobic Landfill Leachate , USM Short Term Grant, RM34,238.00, 15/12/2007-14/12/2009 (Co-researcher)
36.	Environmental Risk Management in the JSPS-VCC Program on Environmental Science, Engineering and Ethics, sponsored by the Japan Society for the Promotion of Science, 2000 to 2009 (fiscal year). Chief researcher: Professor Shinsuke Morisawa, Kyoto University, for the team 'Environmental Risk Assessment (Co-researcher).
37.	Gas Monitoring of Taiping Landfill , FUKUOKA UNIVERSITY, JAPAN , RM7,185.00, 3/8/2012-31/8/2013
38.	Geophysical Study (2-D Electrical Imaging And Transient Electromagnetic Method (TEM) At The Closed Mina Landfill, Makkah, Fundamental Grant Research Scheme (FRGS), Ministry Of Higher Education Malaysia (MOHE), RM250,000Unimap1/10/2008-01/09/2010 (Co-researcher).
39.	GIS Based Watershed Management System For Non Point Source (NPS) Pollution Modelling. , RM8 - EA , Ministry Of Higher Education Malaysia (MOHE), RM194,000.00, Shamshad Ahmad , 1/11/2003-30/4/2007 (Co-researcher)
40.	Haj Research Cluster, 2007. Visited Saudi Arabia and presented initial findings, May 2007. (Co-researcher)
41.	Horizontal Roughing Filter For Leachate Treatment , USM (RU) , RM169,000.00, Mohd Nordin Bin Adlan , 1/4/2010-31/3/2013 (Co-researcher)
42.	Leachate treatment by resin, RM36,000, 2007-2008. (Co-researcher)
43.	Low-temperature thermal degradation of polycyclic aromatic hydrocarbons (PAHs) in petroleum sludge, Science Fund 06-02-02-SF0165 (UTP), Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM83,800, 01/01/12-31/05/13 (Co-Researcher)
44.	Optimisation of design data for heavy metals removal for media recycling and metal's recovery, IRPA Short Term Grant, RM14,400.00, December 2000-November 2002.
45.	Ozone and ozone/fenton oxidants for landfill leachate treatment Science Fund 03-01-05-SF0600, Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM357,200, 01/10/12-30/09/14 (Co-Researcher).
46.	Performance evaluation of landfill leachate treatment for selected pollutants using bio-fringe and white jute (corchorus capsularies) fiber, USM Short Term Grant Grant, RM39960, 2011-2013 (Principal Investigator)
47.	Performance evaluation of landfill leachate treatment for selected pollutants using bio-fringe and white jute (corchorus capsularies) fiber, USM Sghort Term Grant, RM39960, 2011-2013
48.	Point and Non-point source pollution study at Seberang Perai Selatan using GIS, IRPA Long Term Grant, RM240,000, October 2002-October 2005 (Co-researcher).
49.	Preparation of A New Nanoporous Organic-Inorganic Hybrid Composite Adsorbent for Organic and

Inorganic Pollutants Removal From Landfill Leachate, Science Fund 03-01-02-SF0709 (UKM), Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM122,000, 01/07/10-30/06/12 (Co-Researcher).
50. Proposal on Reengineering of Agricultural Practices for the improvement of Padi Field Farmers Income in Northern Corridor Economic Region., Research University Grant Scheme (RU), RM865,000, Okt 2007, June 2011 (Principal Investigator)
51. Proposed Study for Copperas (FeSO ₄ , 7H ₂ O) Sample Received from Tioxide (Malaysia) Sdn. Bhd. , TIOXIDE (MALAYSIA) SDN. BHD. , RM4,750.00, 31/10/2013-31/10/2014
52. Removal of Halogenated Hydrocarbons from Wastewater Using Nanoparticles , USM Short Term Grant , RM20,000.00, 15/11/2005-14/11/2007 (Principal Investigator)
53. Removal of heavy metals (Hg, Pb, Zn, Cu, Ni, Cd dan Cr (III)) from industrial wastewater using low cost filtration method in the laboratory, IRPA Short Term Grant, RM18,180, October 1996-March 1998-November 2000 (Principal Investigator).
54. Research on the odour and smell problems in engineering campus USM, Healthy Campus Grant, RM25,000, 2003-2004-(Principal Investigator).
55. Research on the rehabilitation of Desa Harapan Recreation pond, Healthy Campus Grant, RM50,000, 2003-2004 (Co-researcher).
56. River Bank/Bed Filtration For Drinking Water Source Abstraction , LRGS, Ministry of Higher Education (MOHE), RM2,696,150.00, 1/8/2012-31/7/2016 (Co-researcher)
57. Study Effects of Temperature Changes Mesofolik and Termofolik Against Waste Composting Process and stools Park Cattle, USM Short Term Grant, RM20,000.00, Nor Habsah Binti Md. Sabiani , 1/7/2007-30/6/2009 (Co-researcher)
58. Study for an alternative removal technique for nitrogen and phosphorus removal from domestic wastewater for algal bloom control in oxidation ponds and lakes, IRPA Long Term Grant, RM152,000, 2004-2007, (Principal Investigator).
59. Study On Effectiveness Of Capillary Barrier As Landfill Cover Under Tropical Climate , Science Fund 03-01-05-SF0485, Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM170,995, 1/12/2006-30/11/2008 (Principal Investigator)
60. Study on leachate and landfill gas production at Ampang Jajar landfill site in Penang, USM Short Term Grant, RM17,820, January 1995-December 1996 (Co-researcher)
61. Study on leachate treatment by wetland, Science Fund Long Term Grant, RM200,000, 2007-2009, (Co-researcher)
62. Study on The Alternative Nitrogen and Phosphorus Removal from canteen Wastewater for Algae Bloom Control , USM Short Term Grant , RM19,500, 1/6/2003-31/5/2005 (Co-Researcher)
63. Study On The Alternative Removal Technique For Nitrogen And Phosphorus Removal From Domestic Wastewater For Algal Bloom Control In Oxidation Ponds And Lakes , IRPA RMK8, RM151,000.00, 1/8/2005-31/7/2007 (Principal Investigator)
64. Study On The Behavior Of Food Waste Conversion To Organic Organic Fertilizer By Means Of Mechanical Heat Treatment (MHT) , USM (RU) , RM92,000.00, 1/1/2009-30/6/2011 (Co-researcher)
65. Study on the development of equations relating flow and weir length in sedimentation tank, IRPA Short Term Grant, RM19,994, December 2000-November 2002 (Co-researcher).
66. Study on the use of natural starch as coagulant aid in water and wastewater treatment, IRPA Short Term Grant, RM14,671, December 1998-November 2000 (Principal Investigator).
67. The Effectiveness of Doorstepping as a Communication Tool for Recycling of Solid Wastes in East-Coast and Northern States, Malaysia: An Evaluation Study Towards Sustainability , USM Short Term Grant, RM33,580.00, 1/2/2011-31/1/2013 (Co-researcher)
68. The Proposed Design and Tendering for the New Phase of Landfill at Kakia Disposal Site - Phase 1 , Mayor Of Makkah , RM82,475.75, 1/5/2010-31/10/2013
69. The Use Of Natural Polymer (Natural Starch) As An Alternative Coagulant Aids In Removing Turbidity, Nitrat, Sulphate, Chloride And Heavy Metals From Water And Waste Water , RM7 , RM244,988.00, 1/2/2000-31/1/2003 (Principal Investigator)
70. Theoretical elaboration of solid waste consolidation and the development of the associated laboratory testing procedure, USM Short Term Grant, RM19,000, September 2002-August 2003-(Co-researcher)
71. Theoretical Evaluation of Municipal Solid Waste Consolidation and Settlement in Landfill , FRGS , Ministry Of Higher Education Malaysia (MOHE), RM60,000.00, Mohamad Razip Bin Selamat , 1/11/2006-31/10/2009 (Co-researcher)
72. Towards Odour Pollution Regulation for Malaysia: A Comparative Study Between Olfactometry, the Accepted Method of Odour Measurement in Malaysia with Other Proven Techniques Regulated in Japan, Europe and New Zealand , ERGS, Ministry of Higher Education (MOHE) , RM100,000.00, Nastaein Binti Qamaruz Zaman , 1/8/2012-31/7/2014 (Co-researcher)
73. USM Hajj Research 1428 - 1430 H in Collaboration With UMM Al - Qura Universiti, Makkah, Kingdom Of Saudi Arabia , Ministry Of Higher Education Malaysia (MOHE), RM2,000,000.00, Omar Bin Osman , 15/12/2007-31/12/2012 (Co-researcher)
74. Utilization Of Existing Landfill Spatial Variables To Model A Sustainable Landfill Site Selection , USM (RU) , RM129,350.00, 1/8/2010-31/7/2012 (Co-researcher)
75. Water Quality Monitoring for the Proposed Construction and Completion Fire and Rescue Academy Tronoh , Masdac Engineering Sdn. Bhd. , RM35,000.00, 1/6/2012-31/1/2014 (Co-researcher)

76. Water Quality Study for Green Drainage System (GDS) , IJ Berkati Enterprise , RM20,000.00, 2/1/2013-31/12/2013 (Co-researcher)
c) On-going
1. Fatehah Binti Mohd Omar, Hamidi Bin Abdul Aziz, Importance of Flocculation Processes on the Fate and Transport of Nanoparticles in Natural and Water Treatment Processes , RM36,280.00, 01/04/2016-30/09/2018
2. Fatehah Binti Mohd Omar, Hamidi Bin Abdul Aziz, Norli Binti Ismail, Characterisation of Particle Size and Zeta Potential of Hematite (Iron Oxide Nanoparticles) in Groundwater Supply Distribution using Dynamic Light Scattering Technique , RM80,000.00, 01/01/2018-31/12/2019
3. Hamidi Bin Abdul Aziz, Mohamad Fared Bin Murshed, Protection of Drinking Water : Source Abstraction And Treatment , RM4,594,250.00, 01/08/2012-31/01/2018
4. Hamidi Bin Abdul Aziz, Siti Nor Farhana Bt Zakaria , Coagulation-Flocculation of Cod, Colour, Turbidity, And Suspended Solids In Landfill Leachate Using Tin Tetrachloride (SnCl ₄) , RM10,000.00, 25/01/2018-24/01/2019
5. Herni Binti Halim, Hamidi Bin Abdul Aziz, Assessment of Highway Noise Levels and Effectiveness of Noise Barriers in Klang Valley, Malaysia , RM35,598.00, 01/08/2017-31/07/2019
6. Mohd Suffian Bin Yusoff, Hamidi Bin Abdul Aziz, Development of EFB Based Activated Carbon-Iron Oxide Nanocomposite: A New Adsorption Media for Landfill Leachate Treatment, RM95,000.00, 01/01/2018-31/12/2020
7. Nastaein Binti Qamaruz Zaman, Dr. Siti Roshayu Binti Hassan , Hamidi Bin Abdul Aziz, Husnul Azan Bin Tajarudin, The behaviour of new immobilised sulfur oxidising bacteria from palm oil mill effluent for odour treatment , RM96,460.00, 15/08/2017-14/08/2019
1.3 INTELLECTUAL PROPERTY
a) Patent
1. Adlan, M.N., Aziz, H.A. Roughing Filter for Bottom Billion Community Water Supply. Patent Application No. PI 201716026, Filing Date: 25/01/2017
2. Adlan, M.N., Aziz, H.A. Roughing Filter For Bottom Billion Community Water Supply, Malaysian Patent filed 12 July 2017, MyIPO Malaysia, No PI2017702537
3. Adlan, M.N., Aziz, H.A. Air Injection Nozzle For Solid-Liquid Separation Using Dissolved Air Flotation Process. Patent No. MY-138312, Patent Search Ref. SIRIM, PI 20062479.
4. Aziz, H.A. (Head), Halim, A.A., Johari, M.A.M., Ariffin, K.S., Adlan, M.N.. ZELIAC: A Novel leachate treatment system (In filing process). Patent Search Ref. SIRIM, ISD 426/13/1(PS2008-110146).
5. Aziz, H.A. , Sulaiman, A.H., Hamdan, N., Kasa, M.S., Abudtan, I., Akil, H.M., Ahmad, Z.A., Ahmad, M.A., Yahaya, N.K.E.M., Latif, M.F.P.M. Green Drainage System (GDS). Patent Search Ref. SIRIM, PI 20095660.
6. Aziz, H.A. , Yusoff, M.S., Yahaya, N.K.E.M., Khan, M.N.N., Khan, M.N.N., Khir, M.F.M., Latif, M.F.P.M., Uzir, M.H., Aria, W.N.W. Integrated Recycle Bio Bin (IRBB). (In filing process). Patent Search Ref. MyIPO, PI20095073
7. Tajarudin, H.A., Aziz, H.A. , Tamat, M.R., Othman, M.F. A process for the production of acetic acid and butyric acid. Application No: PI 2015704214, Filing Date: 19/11/2015.
b) Trademark
1. Aziz, H.A. , Adlan, M.N., Yusoff, M.S., Azmi, M.A.M., Ariffin, K.S., Halim, A.A., Kamaruddin, M.A. ZELIAC, Class (01). Application No. 2015002580.
2. Aziz, H.A. , Adlan, M.N., Yusoff, M.S., Azmi, M.A.M., Ariffin, K.S., Halim, A.A., Kamaruddin, M.A. ZELIAC, Class (40). Application No. 2015002581.
2.0 TEACHING AND SUPERVISION
a) Undergraduate / Graduate Teaching
1. Advanced Environmental Engineering (EAP312) – 4 (2.5) credits and 30 students, 1997 to 2001.
2. Advanced Environmental Engineering (JAP512) – 4 (2.5) credits and 20 students, 1999 to 2005.
3. Advanced Public Health Engineering (EAH414) – 4 (2) credits and 20 students, 1993 to 1998.
4. Advanced Public Health Engineering (JAH411) – 4 (2) credits and 10 students to 1994 to 1997.
5. Air & Noise Pollution Control (EAP583) – 4 (2) credits and 12 students, 2004 to date.
6. Building Services (JAA471) – 3 (1) credits and 50 students, 1994 to 1997.
7. Building Services Engineering (EAA471) – 3 (1) credits and 60 students to 1995 to 1997.
8. Dissertation (EAA605) – 20 credits and average 2 students per year, 1999 to date
9. Engineering Practices (EAA271) – 2 (0.5) credits and 160 students, 2001 to 2003.
10. Environmental Engineering II (EAP311/EAP214) – 3 (1.5) credits and 170 students, 1994 to 2000
11. Environmental Engineering II (JAP411) – 3 (1.5) credits and 70 students, 1998 to 2003
12. Environmental Studies (EAH412) – 4 (1.3) credits and 20 students, 1993 to date
13. Environmental studies (EAP412) – 4 credits and 20 students, 2004 to date
14. Environmental Studies (JAH412) – 4 (1) credits and 10 students to 1994 to 1998.

15. Final year project -6 credits, at least 3 students per academic year, 1993 to date
16. Introduction to environmental science (EAH112) – 3 (2.5) credits and 70 students, 1992 to 1995.
17. Introduction to environmental science (JAH112) – 3 (2.5) credits and 15 students, 1994 to 1997.
18. Noise Pollution (EAV513) – 4 (2) credits and 5 students, 1999 to 2003.
19. Noise Pollution Control (EAP318/2) – 1 credit and 30 students, 2017 to date
20. Noise pollution control (EAP318/2)- 1 credit and 40 students, 2017 to date
21. Operational Methods and Engineering Management (EAA501) – 4 (0.5) credits and 20 students, 1999 to 2003.
22. Pollution and Environmental Conservation (EAH413) – 4 (2) credits and 20 students, 1993 to 1999.
23. Pollution and Environmental Conservation (JAH413) – 4 (2) credits and 10 students, 1994 to 1997
24. Practical exercise II with 160 students, 1997 to 2000
25. Public Health Engineering I (EAH311) – 3 (1.5) credits and 70 students, 1992 to 1996.
26. Public Health Engineering I (JAH311) – 3 (1.5) credits and 60 students to 1998 to 2000.
27. Public Health Engineering II (EAH411) – 3 (1.5) credits and 20 students, 1992 to 1997.
28. Solid & Hazardous Waste treatment (EAV514) – 4 (2) credits and 5 students, 1999 to 2003
29. Wastewater and Pollution Control Engineering (EAV512) – 4 (2) credits and 5 students, 1999 to 2003
30. Wastewater Engineering (EAP 313) – 2 (1.3) credits and 100 students, 2001 to date
31. Wastewater Engineering (EAP213) – 2 (2) credits and 150 students, 2003 to 2005.
32. Wastewater Engineering (EAP315) -3 credits and 70 students, 2016 to date
33. Wastewater Engineering (EAP582) – 4 (2) credits and 20 students, 2004 to date.
b) Post-Doctoral And Graduate Supervision Completed
i) Post-doctoral
1) Abu Ahmed Mokammel Haque, 2011-2013
2) Salem S.S. Abuamro, 2014-2015
ii) Completed Ph.D.
1. ABDEL NASER OMRAN, Study of recycling attitude in Malaysia, 2007 (Main supervisor).
2. ABDULLAH MOHAMED EL MAHDI GEBRIL (P-WD0166), Biodegradation of Libyan Light Crude Oils using Locally Isolated Pseudomonas SP.NAF1, PhD, 2015 (Main supervisor)
3. AHMED A.M. ABU FOUL, Removal of ammonia, COD, colour and suspended solid from leachate using limestone, zeolite and activated carbon, 2007 (As main supervisor).
4. AMIN MOJIRI (P-WD0182), Co-Treatment of Landfill Leachate and Settled Domestic Wastewater Using Composit Adsorbent In Sequencing Batch Reactor, PhD, 2015 (Main supervisor)
5. AMIR HOSSEIN VAKILI (P-WD0185), Filtration of Broadly Graded, Cohesive, Dispersive Base Materials, PhD, 2015 (Co supervisor)
6. AREZOO FEREIDONIAN DASHTI (P-WD0167), Removal of Turbidity, COD, Colour, Suspended Solid and NH ₃ -N from Palm Oil Mill Effluent Using Limestone Roughing Filter, Ph.D. (Co supervisor)
7. AZHAR BIN ABDUL HALIM (P-WD0038), Treatment of Semi-Aerobic Leachate using Organic and Mineral Based Composite Adsorbent, PhD, 2009, (Main supervisor)
8. DHEEAA AL DEEN A. ALI (P-WD0020/14(R), Enhancement of Photocatalytic Process in the Petroleum Wastewater Treatment at Sohar Oil Refinery, Oman, PhD, 2016, (Co supervisor)
9. FATEHAH MOHD OMAR Characterization, Properties, Transformation And Behavior Of Zno Nanoparticles In Aquatic Systems, 2015.
10. LEILA MOHAJERI (P-WD0040), Process Parameters Optimization for Bioremediation of Crude Oil in Contaminated Coastal Sediments, PhD, 2011 (Main supervisor)
11. LING SONG KAI (S-WD0043), Study on Municipal Solid Waste Management in Malaysia : Case Study in Kuching, Miri and Sib, PhD, 2011 (MAIN SUPERVISOR)
12. MOHAMED OSMAN SAEED (P-WD0084), Assessment of Standard Landfill Criteria for Planning of New Landfill Sites, PhD, 2012 (Main supervisor)
13. MOHAMMAD ALI ZAHED (P-WD0041), Enhance Biodegradation of Dispersed Crude Oil using Marine Microorganisms, PhD, 2011 (Main supervisor)
14. MOHAMMED J. K. BASHIR (P-WD0076), Removal of Colour, COD and NH ₃ -N from Semi-aerobic Sanitary Landfill Leachate using Sulfonic Acid Anionic and Quaternary Amine Functional Group Resins, PhD, 2011 (Main supervisor)
15. MOHD FAIZ MUAZ BIN AHMAD ZAMRI (P-WD0017/13(R), Natural Flocculant from Durio Zibethinus Seed Starch for Municipal Solid Waste Landfill Leachate Treatment, PhD, 2016 (Co supervisor)
16. MOHD. SUFFIAN YUSOFF, The effectiveness of limestone as filter media to remove COD, BOD and iron from leachate: case study at Pulau Burung semi-aerobic landfill, 2006 (As main supervisor).
17. NOOR AIDA BINTI SAAD (P-WD0005/13(R), Prediction of Flow Field and Oxygen Utilization Rate (OUR) In Orbital Biological System (OBS) Using CFD, PhD, 2016 (Main supervisor)
18. NOOR AINEE BINTI ZAINOL (P-WD0098), Diplazium Esculentum Leaf As A Natural Coagulant Aid In Landfill Leachate Treatment, PhD, 2016 (Main supervisor)
19. NUR SHAYLINDA BINTI MOHD ZIN (P-WD0170), Treatment of Partially Stabilized Landfill Leachate Using

	Composite Coagulant Derived from Prehydrolyzed Iron and Tapioca Starch, PhD, 2015 (Main supervisor)
20.	NURUL HANA MOKHTAR KAMAL, Nitrogenous Disinfection By-Products (N-DBPs) In Drinking Water: Occurrence, Formation And Control, Department of Civil and Environmental Engineering, Imperial (As co-supervisor), 2015.
21.	PARSA MOHAJERI (P-WM0007/15(R), The Effect of Sawdust on the Geo-Environmental Properties of Bentonite Clay Contaminated with Lead, Master(Research), 2016 (Co supervisor)
22.	PUGANESHWARY A/P PALANIANDY (P-WD0083), Removal of Turbidity, COD, Colour and Ammonia Nitrogen From Semi-Aerobic Landfill Leachate Using Coagulation and Dissolved Air Flotation (DAF) Processes, PhD, 2012 (Main supervisor)
23.	SALEM S.S. ABUAMRO (P-WD0159), Comparison and Optimization of Ozone-Based Advanced Oxidation Processes In the Treatment of Stabilized Landfill Leachate-, PhD, 2013 (Main supervisor)
24.	SEYEDMOHAMMAD HOSSEINI (P-WD0128), Chemical pretreatment and thermophilic composting process for rapid biodegradation of rice straw, PhD, 2013 (Main supervisor)
25.	SHUOKR QARANI AZIZ (P-WD0106), Landfill Leachate Treatment Using Powdered Activated Carbon Augmented Sequencing Batch Reactor (SBR) Process, PhD, 2012 (Main supervisor)
26.	SORAYA MOHAJERI (P-WD0044), Removal of COD and Color from Stabilized Landfill Leachate using Fenton. Electrochemical and Electro-Fenton Processes, PhD, 2011 (Main supervisor)
27.	ZAWAWI BIN DAUD (P-WD0039), Treatment of Semi-Aerobic Leachate at Pulau Burung Sanitary Landfill Using the Combined Method of Coagulation-Flocculation and Filtration, PhD, 2009 (Main supervisor)
28.	NURAZIM IBRAHIM (P-WD0009/13(R), River Bank/bed Filtration for Drinking Water Source Abstraction: The Study On Mechanisms of Surface Adsorption and Filter Straining in Porous Media, Ph.D., convocation date November 2018
29.	SITI HAFIZAN HASSAN (P-WD0190), Estimating construction waste generation using materials flow analysis approach, Ph.D., convocation date November 2018
30.	HOSSEIN FARRAJI (P-WD001912R), Performance Of Sequencing Batch Reactor Enhanced With Zeolite And Raw Municipal Wastewater In The Treatment Of Palm Oil Mill Effluent, Ph.D., convocation date November 2018
31.	ABDELSALAM O GEBRIL ALI (P-RD0013/08(R), Factors Affecting Public Participation in the Recycling of Municipal Solid Waste in Libya: A Case Study of Benghazi City, PhD, 2012 (Co supervisor)
32.	MOHAMAD ANUAR BIN KAMARUDDIN (P-WD0004/12(R), Development of Carbon Mineral Composite Adsorbent for Textile Wastewater Treatment, PhD, 2015 (Co supervisor)
33.	MUHD NAZMI BIN ISMAIL (P-WD0005/12(R), Adsorptive Treatment of Textile Wastewater Using Activated Carbon Prepared from Pandanus Amaryllifolius Stems and Areca Catechu Fronds, PhD, 2016 (Main supervisor)
34.	OLUWAKEMI KEHINDE FAGBENRO (P-WD0017/12(R), Removal of Color, Suspended Solids and COD from Textile Wastewater Using Clinoptilolite and Persulfate, in batch system, PhD, 2015 (Main supervisor)
35.	HAIDER MOHAMMED NAIMA ZWAIN (P-WD0020/12(R), Treatment of Recycled Paper Mill Effluent Using Modified Anaerobic Inclining-Baffled Reactor, PhD, 2016 (Main supervisor)
iii) Completed M.Sc. by research	
1.	ELVIN TAN, Development of an appropriate air nozzle and air saturator for the dissolved air flotation as a solid-liquid separation process in potable water treatment, 2006 (Co-supervisor).
2.	JAAFAR AHMAD, Composting of municipal solid waste using lateral and vertical rotations, 2001 (Co-supervisor).
3.	JAYA PAUL A/L ARUMAI DHAS (S-WM0102), Removal of Cod and Colour from Textile Wastewater using Limestone and Activated Carbon, Master(Research), 2009 (Main supervisor)
4.	LAU TEIK HIN, Removal of colour from semi-aerobic leachate using limestone and activated carbon, 2006 (Main supervisor).
5.	MOHAMAD FARED MURSHED, Dissolved air floatation using local made saturator for water treatment, 2007 (Co-supervisor).
6.	MOHAMED ALI ABD. KARIM, Master, Cockles shell for leachate treatment, 2000 (Co-supervisor).
7.	MUHAMMAD UMAR (P-WM0197), The Effects of Chlorination on Landfill Leachate from Pulau Burung, Ampang Jajar and Kuala Sepetang, Master(Research), 2010 (Main supervisor)
8.	NAJWA FARDELLA BINTI MOHD SHAM, Combination Treatment for Semi-aerobic Leachate By Using Roughing Filter Followed With Dissolved Air Flotation (DAF), 2011 (Co-supervisor).
9.	NASRIN AGHA MOHAMMADI, Influence of adsorbents on activated sludge process in leachate treatment, 2006 (Main supervisor).
10.	NIK AZIMATOLAKMA BINTI AWANG (P-WM0209), Hibiscus Rosa-Sinensis Leaf Coagulant in Wastewater and Leachate Treatments, Master(Research), 2011 (Main supervisor)
11.	NOOR AMIZA BINTI AB AZIZ (P-WM0006/15(R)). A physical model study of a riverbed filtration system for removal of turbidity, colour and suspended solids for water clarification', Master(Research), 2017
12.	NOORULHUDA MOHAMAD ISA, Removal of ammonia in leachate using zeolite, 2005 (Co-supervisor).
13.	NOR HABSAH BINTI MD SABIANI (S-WM0128), Composting of Yard Waste Using Aerated Static Pile and Rotary Drum Methods, Master(Research), 2009, (Co supervisor)
14.	NOR HANA BINTI ADAM (P-WM0206), A Study on Leachate COD Fractions from Semi-Aerobic Landfill,

Master(Research), 2012 (Co supervisor)
15. NORAZLI BT. OTHMAN, Heavy metals removal using limestone particle, 2000 (MAIN supervisor).
16. NORHIDAYAH BINTI AHMAD (P-JM0265), Synthesis of Agrowaste Based Activated Carbons by Physiochemical Activation for Dyes Removal: Equilibrium, Kinetic and Thermodynamic Studies, Master(Research), 2013 (Co supervisor)
17. NORINSAFRINA BT MUSTAFFA KAMAL, Removal Of Manganese From Acid Mine Drainage Using Ferromanganese Ore, Master(Research), convocation date November 2018
18. NORLIZA KAMALUDIN, Removal of anions and heavy metals from drinking water using natural coagulants, 2006 (MAIN supervisor).
19. NUR NASUHA BINTI AHMAD PUAT (P-WM0002/12(R), Biological Treatment of Poultry Slaughterhouse Wastewater Using Sequencing Biofilm Batch Reactor (SBBR), Master(Research), 2016 (Main supervisor)
20. NURAZIM BINTI IBRAHIM (P-WM0221), A Study on Generation Rate of Food Waste and its Treatment Using Autoclave, Master(Research), 2012 (Co supervisor)
21. NURUL AIIN BINTI AB AZIZ (P-WM0013/14(R)) removal of PAHS and OCPS from synthetic rainwater using heterogeneous photocatalysis (TiO ₂ /solar), Master(Research), 2017
22. SABIR HUSSEIN, Ammoniacal-Nitrogen and Orthophosphate removal from domestic wastewater using limestone and granular activated carbon, MAIN supervisor, 2006, (Main supervisor).
23. SALINA ALIAS, Coagulation and flocculation of semi-aerobic leachate using various coagulants and coagulant aids: case study at Pulau Burung landfill, 2005 (MAIN supervisor).
24. SITI FATIHAH BINTI RAMLI (P-WM0005/13(R), Treatment of Selected Parameters in Landfill Leachate Using Ferric Chloride, Chitosan and Aloe Vera, Master(Research), 2016 (Main supervisor)
25. U HAN THEIN MAUNG, Horizontal roughing filter in water treatment for remote settlement, 2007 (Co-supervisor).
26. WAN IZATUL SAADIAH BINTI WAN KAMAR (P-WM0010/13(R), Application of Copperas and Sago Starch in Domestic Wastewater Treatment by Coagulation Flocculation Process, Master(Research), 2016 (Main supervisor)
27. WAN NURUL HUDA BINTI WAN ZAINAL, Removal of remazol brilliant violet 5R and brilliant blue R reactive dyes by adsorption onto functionalized polymeric adsorbents, 2011. (Co supervisor).
iv) Completed M.Sc. By Mixed-Mode
1. ABDUL MANAFF BIN MAHMOOD, Study on the impact of non-point sources by agricultural practices in Kelantan, 2008 (As main supervisor).
2. HWANG SHIANG LIN, Treatment of synthetic shrimp farm wastewater by composite adsorbent, 2010 (As main supervisor).
3. KHAIRUL RAHMAH BT AYUB, SWAT application for hydrologic and water quality modeling for suspended sediments: A case study of Sungai Langat's catchment in Selangor, 2009 (As main supervisor).
4. MANOGARI A/P SUNDRAM, Ammonia, COD and colour removal from prawn pond effluent using composite media, 2008 (As main supervisor).
5. MARNIYATI BINTI MAMAT NOOR, Treatment of final effluent from textile industry by H ₂ O ₂ oxidation, 2007 (As main supervisor).
6. MISKIAH FADZILAH BINTI GHAZALI, Characterization and solidification of dried sludge from textile industry, 2007 (As main supervisor).
7. MUHAMAD AFIQ BIN MAHAT, Evaluation of odour levels from municipal solid waste sludge at bayan baru sewage treatment plant, 2011 (AS main supervisor)
8. NABIHAH BINTI ABDULLAH, Chemical oxidation process in removing COD, ammonia and colour from semi-aerobic leachate, 2005 (As main supervisor).
9. NAIMAH IBRAHIM, Removal of chromium using oil palm by products, 2005 (As main supervisor).
10. NOOR FADZILAH BT KHALID, Coagulation process of semi-aerobic leachate in removing metals using ferric chloride, aluminium sulphate and magnesium chloride, 2005 (As main supervisor).
11. NOOR FAIZAH MOHD NOOR @ SAMSUDIN, Physico-chemical treatment using limestone and activated carbon in removing COD, ammonia and colour from pre-coagulated semi-aerobic leachate with poly-aluminium chloride and Alum, 2006 (As main supervisor).
12. NOORLISA HANIM MOHAMAD ARIFFIN, Physico-chemical treatment using limestone and activated carbon in removing COD, ammonia and colour from pre- oxidized semi-aerobic leachate with KMnO ₄ and H ₂ O ₂ , 2006 (As main supervisor).
13. NOR AINI BT RAHIM, M.Sc. mixed-mode. Potential use of dimocarpus longan seed as flocculant in landfill leachate treatment, completed October 2016
14. NORLIA BT. MOHAMAD IBRAHIM, Column study for removal of COD, colour, ammoniacal nitrogen, turbidity and zinc in semi aerobic landfill leachate usin mixed media, 2005 (As main supervisor).
15. NUR IZZATI MOHAMAD SOBRI, Extraction and Application of Starch-Based Coagulants from Sago Trunk for Semi-Aerobic Landfill Leachate Treatment, 2014 (As main supervisor)
16. NUR SYAHIRAH BINTI RAHMAT. Rambutan (Nephelium lappaceum sp.) seeds as Natural Coagulant/Flocculant for Landfill Leachate Treatment
17. NURUL HAZIQAH BINTI MAT YISIN, Identification of bacteria strain in fully and partially stabilized landfill leachate in relation to leachate biodegradation rate, 2015 (As main supervisor)

18. ONG SEE LENG, A study of landfill leachate treatment by PACl, sago starch and tapioca starches, hymenocallis lirisome and aloe vera as coagulants, 2010 (As main supervisor).
19. OSAMA MOHAMMED OTHMAN, The effects of ultraviolet (UV) and electro-fenton at the coliform and COD in leachate landfill, 2012 (AS main supervisor)
20. PUGANESHWARY A/P PALANIANDY, Treatment of leachate from PulauBurung Landfill Site by H2O2 oxidation followed by coagulation/flocculation process, 2007 (As main supervisor).
21. RUSYA AZRINA YAHAYA, Physico-chemical treatment using limestone and zeolite in removing COD, ammonia and colour from pre-coagulated semi-aerobic leachate with poly-aluminium chloride and Alum, 2006 (As main supervisor).
22. SAMIR K I MATAR, Potential use of palm oil sludge as landfill liner and capping, (As main supervisor), 2010.
23. SHABNAM KHOSRAVI HAFTKHANI, Treatment of Landfill leachate using a combination of Fenton and coagulation/flocculation techniques, 2009 (As main supervisor).
24. SHAHIN GHAFARI, Coagulation process of semi-aerobic leachate in removing COD, ammonia and suspended solids using polyaluminium chloride, 2005 (As main supervisor).
25. SIM YEE LING, Treatment of textile wastewater using PAC as coagulant and Hibiscus rosa-sinensis as coagulant and coagulant aid, 2010 (As main supervisor).
26. TAN JYY LING, Leachate treatment by Swim-Bed biofringe technology, 2010 (As main supervisor)
27. TAN YONG HAN, Removal of phenols using composite adsorbent (ZELIAC), 2012 (As main supervisor)
28. WAN ROHANA BINTI ZAKARIA, Treatment of leachate from Pulau Burung Landfill Site by coagulation/flocculation followed by H2O2 oxidation, 2007 (As main supervisor).
29. YASHRINA MOHAMD YASIM, Evaluation of leachate quantity composition due to biodegradable of different waste composition using physical method, 2008 (As main supervisor).
30. YONG CHIN YII, Utilization Of Tamarindus Indica Seeds As Natural Coagulant/Flocculant In Landfill Leachate Treatment, graduated October 2016
POST-DOCTORAL AND GRADUATE SUPERVISION
On-Going
i) On-going Ph.D.
1. NOR AZALINA BT ROSLI (P-WD0011/16(R), Removal of carbofuran from aqueous solution by adsorption on virgin and regenerated activated clay, PhD (Main supervisor)
2. NOR AZLIZA BINTI AKBAR (P-WD0030/13(R), Physico-chemical method for heavy metal removal from groundwater using activated ZELIAC, PhD (MAIN SUPERVISOR)
3. SHARIFAH FARAH FARIZA BINTI SYED ZAINAL (P-WD0025/14(R), Potential Use of Parkia Speciosa as Flocculant in Landfill Leachate Waste, PhD (Main supervisor)
4. SITI NOR FARHANA BT ZAKARIA (P-WD0023/14(R), Enhancement of biodegradation ratio of anaerobic landfill leachate by ozonation/persulphate process- , PhD (Main supervisor)
c) Undergraduate Supervision (graduated)
1. Abdul Latiff Ibrahim, Study on the data optimisation for palm oil wastewater treatment plant at Seberang Perak, 2000/2001.
2. Adriana a/k Peter Chee, Study on the efficiency of newly designed and operated 3 stage oxidation pond at USM Engineering Campus, 2001/2002.
3. Ahmad Bukhori bin Najmi, Regeneration of activated carbon and limestone in removing phosphorous and ammoniacal nitrogen from domestic wastewater, 2005/2006.
4. Ahmad Kamal Arif Mohamad, The degree of compliance of The Environmental Quality Act 1974. Case Study for Industrial and Municipal effluents in Ipoh, 1993/94.
5. Amiruddin Mohd Shah, The use of natural starch as coagulant aid in water treatment-Case study at Kedah's treatment plant, 1998/99.
6. Badrul Hisham Bin Nazarudin, Water quality deterioration in Tap Water: Investigation on the compositions of filtered materials, 2006/2007.
7. Chae Tyng Feng, Advance treatment of leachate effluent from landfill leachate treatment plant using Membrane Filtration., 2006/2007.
8. Chandra Segar a/l Kalimuthu, Wastewater treatment system, 1999/2000.
9. Che Lokman bin Abdullah, Solid waste management in Bachok Kelantan, 1999/2000.
10. Che Mahmud Che Mat, Solid waste management at Tanah Merah- Case study, 2000/2001.
11. Cheong Kah Win, Potential use of SnCl4 as coagulant in leachate treatment, 2015/2016
12. Chieng Siew Hui, Removal of selected heavy metals and colour from industrial wastewater using limestone particle and waste material activated carbon, 1996/97.
13. Ching Lee Huat, Comparative study on the effectiveness of aeration process between diffused aerator and surface aerator, 2001/2002.
14. Dina Mashida Masron, Heavy metals removal by limestone and microorganism-batch study, 2000/2001.
15. Emmi Farini Md Mohtar, BOD and COD removal from semi-aerobic leachate by limestone filtration, 2003/2004.
16. Engku Khairulaziz Engku Abdullah, Study on the use of tapioca as a coagulant in water treatment plant, 1995/96.

17. Faisal Resaik, Physical treatment using mixture of zeolite and activated carbon in removing ammonia, iron and zinc from Pulau Burung semi-aerobic landfill, 2004/2005.
18. Fikriah Rozlan, Head lost study of various filters in treatment of leachate from Pulau Burung semi-aerobic landfill, 2004/2005.
19. Goh Wee Siang, Removal of Heavy metals Chromium, Copper and Zinc from wastewater using limestone filtration technique., External supervisor for Kolej IKRAM/UPM student, 2000/2001
20. Hamidah Abu Bakar, Study on the effectiveness of recycling campaign in Ipoh City Council-quantification of recycled material at Bercham Landfill Site, 2002/2003.
21. Heng Mui Lee, Physical treatment using mixture of zeolite and activated carbon in removing COD and colour from Pulau Burung semi-aerobic landfill, 2004/2005.
22. Heng Mui Lee, Zeolite and limestone for removing COD and colour from Pulau Burung Landfill Site., 2004/2005.
23. Idzwan Bin Mohd Nor, Determination of filtrates trapped in drinking water filtrate at choosen area, 2007/2008.
24. Jazlan Mohamed Amin, Study on the wastewater treatment plant riched with oil waste from off-shore oil rig at Terengganu, 2000/2001.
25. Juhaida Mohamad, Determination of surface water quality as an alternative water source-Case study (ex-mining pond water), 1998/99.
26. Junaidah Embok Daik, Treatment of water treatment sludge from Intan Utilities Plant in Parit, Perak, 1997/98.
27. Kar Kin, Initial characterization of semi-aerobic landfill leachate based on its biodegradation, 2008/2009.
28. Kristin Akit, Study on the pollution load of lead and DDT in Malaysian environment, 2001/2002.
29. Kristin Akut, Determination of the Pb and DDT pollution in Malaysia-literature review, 2001/2002.
30. Lau Jian Ning, Filter straining study in river bank filtration, 2015/2016
31. Lau Seng Hock, Use of ion exchange resins in treatment of leachate from Pulau Burung landfill site, 2007/2008.
32. Laura Raymond Boin, Heavy metals removal by a mixture of limestone and silica-batch study, 2000/2001.
33. Lean Kok Woei, Study on the degree of absorption and precipitation of heavy metals reacted with limestone particle, 1998/99.
34. Lee Ngan Siew, Physical treatment using mixture of zeolite and limestone in removing COD and colour from Pulau Burung Landfill Site, 2004/2005.
35. Lee Ngan Siew, Zeolite and limestone for removing ammonia and heavy metal from Pulau Burung Landfill Site., 2004/2005.
36. Lee Weoi Jye, Removal of particles, total coliforms, E. Coli, total dissolved solids (TDS), suspended solids (SS), UV254, and color using zeolite and activated carbon mixture in riverbank filtration, 2017/2018.
37. Leong Chee Kian, Study on the optimisation of coagulant used in treating electroplating wastewater in Simpang Pulai Ipoh, 1994/95.
38. Lim Wai Jim, Study on ladies' finers and bananan fruit as coagulant and coagulant aid in drinking water treatment, 2007/2008.
39. Lo Ming Rui, Application of Hibiscus rosa-sinensis leaf extract as coagulant for semi-aerobic leachate treatment, 2008/2009.
40. Mahadi Bin Muhammad, Advance treatment of leachate effluent from landfill leachate treatment plant using Low-cost Composite Mixture Media., 2006/2007.
41. Mala Marseila Hasanuddin, Relation between various semi-aerobic leachate parameters, 2003/2004.
42. Manogari A/P Sundram, NH ₄ -N removal from treated effluent of leachate treatment plant by Air-stripping Method., 2006/2007
43. Mariaty Perwira, Continuation study on the use of carbon and limestone in removing metallic wastewater, 1999/2000.
44. Masita Mat Taib, Study on the removal of leachate using activated carbon and limestone, 2003/2004.
45. Masri Muda, Initial study on the use of selected plant leaves as coagulant and coagulant aid in water and wastewater treatment, 1999/2000.
46. Mazita Johari, Continuation study on the determination of the degree of adsorption and precipitation of heavy metals from water and wastewater, 1999/2000.
47. Michelle Agnes Pareira, Development of computer programme for designing an extented aeration wastewater treatment plant, 1995/96.
48. Mohammad Fauzi Abdullah, Study on the solid waste generation rate for different socio economic areas in Ipoh and Alor Setar, 1995/96.
49. Mohammad Mohaiyaddin Hasin, Modelling of noise from motorcycle -Case study at USM, 1998/99.
50. Mohammed Ismail, Treatment of iron and manganese from underground water in Kelantan using low cost limestone filter, 1997/98.
51. Mohd Hamizi Abdullah, Study on the use of natural starch as coagulant aid in water and wastewater treatment, 1998/99.
52. Mohd Ikhwan Bin Ahmad, Study of Fly in Engineering Campus (What is the source for the growth of flies?), 2006/2007.
53. Mohd Saidi Awang, Comparative study on solid waste management cost analysis between conventional method and WAGS PROGRAMME for Ipoh Municipal, 1993/94

54. Mohd. Kopply, Suitability of the use of natural polimer (sago) as a coagulant aid in water treatment, 1997/98.
55. Mohd. Munir b. Mohd. Noor, Continuation research on the use of tapioca starch as coagulant and coagulant aid in removing turbidity from water, 1999/2000.
56. Mohd. Nazri Ali, Identification of point source pollution contributed by human activities in City of Ipoh, 1994/95.
57. Mohd. Ridzwan, Determination of residual chlorine in pipelines, 2003/2004.
58. Mohd. Sukri Ahmad, Determination of clinical waste generation rate from northern region hospitals, 1998/99.
59. Mohd. Yusuf Hamat, Study on the non-point source of Sungai Kelantan, 1998/99.
60. Mohd. Zaidi Mohamad Saad, Study on the relation of turbidity and solids content in selected water and wastewater-Case study of particle size, 1999/2000.
61. Muhamad Fahmi Zaid, Development of design parameter for sludge disposal on land, 1999/2000.
62. Muhamad Haziq Bin Abd Razak, Potential Use Of Zirconium (Iv) Tetrachloride As Coagulant To Treat Textile Wastewater, 2014/2015
63. Muhamad Yatim Rosli, Potential use of Titanium Tetrachloride as coagulant to treat semi aerobic leachate treatment, 2013/2014
64. Muhammad Fahmi Shaari, The effect of sample preservation on water and wastewater, 1998/99.
65. Muhammad Fikri Abd Wahab, Removal of particles, Total Coliform, E. Coli, Total Dissolved Solids (TDS), Suspended Solids (SS), UV254 and colour using zeolite, 2016/2017
66. Muhammad Khairul Amilin Ismail, Determination of quantity of leachate from Ampang Jajar Landfill Site after more than 8 years of operation, 2001/2002.
67. Muhammad Zamir B. Abd Rahim, Potential Use Of Titanium Tetrachloride As Coagulant To Treat Textile Wastewater, 2014/2015
68. Munawir Basri, Analyses and development of database of solid waste management data in Malaysia, 1996/97.
69. Munir Nazmi Mohamed, Study on dissolved air flotation sludge for water treatment, 2005/2006.
70. Nazri Shafii, Study on the possibility of upgrading of Imhoff tank into activated sludge process from selected petrochemical industry treatment plant, 2001/2002.
71. Ng Ban Soon, The use of Rotating Biological Contactor (RBC) to treat USM wastewater, 1994/95.
72. Ng See Wai, The effectiveness of limestone filters in removing zinc from wastewater, External supervisor for Kolej IKRAM/UPM student, 2000/2001.
73. Nik Azimatolakma Binti Awang, Hibiscus rosa-sinensis leaf and aloe vera as alternative coagulant in drinking water treatment, 2007/2008
74. Nor Azizah Muhammad, Identification of point source pollution along monsoon drain in USM Perak, 1995/96.
75. Nor Mazana Ismail, Study on odour pollution in Malaysia-A review, 1998/99.
76. Norasman Kadir, Study on recycling of heavy metals from industrial wastewater reacted with limestone particle, 1998/99.
77. Norhasliza Binti Abdullah, Acid leaching and metal recovery study on limestone media after column study, 2000/2001.
78. Norzie Md Yusof, Determination of groundwater pollution by landfill site via well monitoring-Case study at Pulau Burung Landfill Site, 2001/2002.
79. Nur Hidayah Adnan, Study on the effectiveness of limestone filters for removing heavy metals in leachate-Case study at Pulau Burung Landfill Site, 2001/2002.
80. Nurfarahim Binti Rusdizal, Potential Use Of Poly-Aluminium Chloride (Pac) And Tobacco Leaf As Coagulant And Coagulant Aid In Post Treatment Of Landfill Leachate, 2014/2015
81. Nurhidayah Binti Sahhari, Potential Use of Zirconium (Iv) Chloride As Coagulant In Semi-Aerobic Leachate Treatment, 2013/2014
82. Nurhuda Ismail, Determination of daytime and night time air pollutants (TSP and PM ₁₀) in USM Engineering Campus, 2001/2002.
83. Nurun Najwa Khalid, Determination of pollution load in surface runoff at Pulau Burung Landfill Site, 2001/2002.
84. Ooi Jon Sern, Sulphide removal using limestone particle-case study at oil refinery wastewater, 2000/2001.
85. Rafeah Sapari, Physical chemical treatment for COD and heavy metal removal using different media from Pulau Burung landfill leachate: Batch study, 2003/2004.
86. Rafiuddin Bin Yeob Ramli, The use of tapioca starch as coagulant and coagulant aid in leachate treatment, 2010/2011
87. Rasman Rashid, Study on the removal of selected heavy metals (Pb, Cd, Zn, Cu, Ni and Cr) using limestone particle, 1993/94.
88. Rohalina Binti Ramli, Head loss study of filtration column in treating semi-aerobic leachate from Pulau Burung Landfill Site, 2004/2005.
89. Rohalina Ramli, Physical treatment using mixture of zeolite and limestone in removing COD and colour from Pulau Burung semi-aerobic landfill, 2004/2005.
90. Rosafizi Mokhtar, Determination of the effectiveness of Paddle Aerator application on existing oxidation pond at selected site in Taiping and Kuantan, 2001/2002.
91. Ruslan Abu, Study on the regeneration of media from metallic wastewater treatment plant-laboratory scale, 1999/2000.
92. Salina Alias, Modeling of quantity of leachate from a newly designed and operated landfill site-Case study at Pulau Burung Landfill Site, 2001/2002.
93. Salina Hasan, Soil erosion study at Cameron Highland and Penang using geonet and new material, 2000/2001.

94. Sam a/k Budi, Noise pollution study on vehicles, based on ages, strokes, speed and c.c. at USM, 2000/2001.
95. Shahanis Nabila Mohd. Shakri, Removal of Fe and Mn from pre-ozonated groundwater using limestone filter, 2016/2017
96. Sharifah Nurhidayah Syed Izham, 'Ground water monitoring around Pulau Burung landfill site', 2003/2004.
97. Sia How Teck, Analyses of heavy metal precipitation in heavy metal removal using limestone particle, 1996/97.
98. Siew Kok Kiong, Study on the influence of raw water pH on the chemical use at selected water treatment plant in Sibu, 2002/2003.
99. Siti Aishah, Coagulation and flocculation effect on heavily polluted pond using alum-case study at USM, 2000/2001.
100. Siti Mariam Ngah, The use of carbon and limestone in heavy metals and colour removal from wastewater, 1998/99.
101. Siti Nur Aishah Binti Mohd Yusoff, Removal of solids, total coliform, e Coli, UV254, colour and turbidity using limestone filter in riverbank filtration, 2017/2018.
102. So Lian Kiong, Effectiveness of limestone filters in removing copper from wastewater, External supervisor for Kolej IKRAM/UPM student, 2000/2001.
103. Sujatha a/p Raghavan, Suitability of the use of natural polimer (tapioca) as a coagulant aid in water treatment, 1996/97.
104. Tan Chee Soon, Comparison of leachate quality between anaerobic and semi-aerobic landfill', External supervisor for UPM student, 2002/03.
105. Tan Kok Lee, Removal of suspended solids, COD, NH ₄ -N and colour from pre-coagulated semi-aerobic leachate using membrane filter, 2008/2009.
106. Tan Yong Han, Post treatment of textile effluent using <i>Zelmac</i> , 2010/2011
107. Thagarajan a/l Vellan Thurai, Optimization of wastewater treatment system for palm oil mill effluent, 1999/2000.
108. Thor Ai Keow, The influence of zeolite on activated sludge process in treating COD, ammoniacal nitrogen and colour from semi-aerobic leachate, 2005/2006.
109. Wan Hasan Wan Nawang, EIA case study-Quarry operation, 1998/99.
110. Wan Ikhwan Wan Hussein, Determination of the mechanism of removal heavy metals removal by limestone, 1994/95.
111. Wan Johan Wan Ishak, Determination of environmental baseline data in USM campus, 1996/97.
112. Wan Noraida Wan Musa, Correlation between vehicle density on gaseous and PM ₁₀ pollution at USM, 2000/2001.
113. Wong Chin Yik, Potential use of silt and sludge as landfill capping material, 2012/2013.
114. Wong Kee Ung, Batch Study On the removal of Heavy metals (Copper, Chromium, Zinc and Nickle) From Industrial wastewater by using limestone., External supervisor for Kolej IKRAM/UPM student, 2000/2001
115. Yap Nam Fee, Treatability study for the propose new activated sludge plant to replace present oxidation pond for student hostel at USM Perak Branch, 1993/94.
116. Yong Gok Chong, Advance treatment of leachate effluent from leachate treatment plant using Carbon Water., 2006/2007.
117. Zarina Mohammad Ali, Development of an extented aeration treatment model for treating slaughterhouse wastewater, 1996/97.
118. Zulaikha Bt Kamaludin, Determination of BOD rate of reaction for younf semi-aerobic leachate, 2005/2006.
3.0 ACADEMIC RECOGNITION AND LEADERSHIP
a) Academic Awards (Recognition for academic/professional excellence)
1. Appreciation for being elected as a panel for Science & Technology speaker in the Local Radio station in special programme for enhancing Science & Technology awareness, Perak State Government, 1995.
2. Appreciation for being elected as a panel for Science & Technology speaker in the Local Radio station in special programme for enhancing Science & Technology awareness, Perak State Government, 1996.
3. British Gas Scholarship for M.Sc. Selected to be the recipient for Malaysia, 1988-1989, 1988.
4. Consolation Prize for Excellence in Research Award given by on research entitled Development of laboratory treatment plant for removing heavy metals from laboratory wastewater', Perak Foundation, 1997.
5. Fellow. Congress Of Chemistry And Environment (FICCE), 2003 to date, 2004.
6. Invited to attend AUN/SEED-Net Field-Wise Meeting Seminar in Civil Engineering', October 31 to November 3, 2007. of Chulalongkon, Bangkok
7. Invited to attend AUN/SEED-Net Field-Wise Meeting Seminar with the theme 'Engineering Solutions to Environmental Challenges: A Regional Collaborative Approach', August 1-2, 2006 in Makati, Manila, Philippines., 1-2 August 2006.
8. Invited to attend AUN/SEED-Net Field-Wise Meeting Seminar with the theme 'Asia link in environmental engineering education and research', November 30 to December 1, 2005, Horison Hotel, Hanoi, Vietnam, November 30-December 1, 2005
9. Maal Hijrah Excellence Award, USM, USM, 2011.
10. Recipient of Excellence Services Award for year 1996, School of Civil Engineering, USM. Total similar Award conferred for the whole USM was 62 out of more than 5,000 staffs, Universiti Sains Malaysia, 1997.
11. Recipient of The Best Researcher Award for the School of Civil Engineering, Universiti Sains Malaysia, 2002.

12. Selected to attend the NEDO Programme on Industry and Environmental Protection for ASEAN, sponsored by New Energy and Industrial Technology Development Organization and implemented, Association for Overseas Technical Scholarship (AOTS), Kansai Kenshu Center (KK), 1998.
13. Top Research Scientist Malaysia, Akademi Sains Malaysia, 2012.
b) Assessor / Examiner
i) Academic Assessor/External Examiner/ Member of Board of Studies
1. Advisory Committee Member, B.Eng. (Environmental Engineering), Universiti Malaysia Perlis (Unimap), 2007.
2. Curriculum Assessor for Master of Engineering programme, UTM, 2009
3. External assessor to academic programme, Bachelor in Civil Engineering, UKM, 2016-2019
4. External assessor to academic programme, Department of Engineering Education, Faculty of Technical and Vocational Education, Universiti Tun Hussein Onn Malaysia, 2017.
5. External Examiner for Civil and Environmental Engineering Programme, Faculty of Engineering, Universiti Kebangsaan Malaysia, 2013-2015
6. Panel Advisory Board, Diploma in Civil Engineering, Politeknik Tuanku Sultanah Bahiyah, Kulim, Kedah, Malaysia, 2013-2015; 2016 to date
ii) External Examiner for Thesis Ph.D.
1. Abdul Haqi Ibrahim, Penyingkiran bahan organik daripada efluen kilang minyak sawit (POME) melalui proses sono-fenton heterogen berudara (In Malay), Ph.D., Faculty of Engineering and Built Environment, UKM, 2015.
2. Abdulbari Abdulrahman Ahmad, Preparation and characterization of mesoporous activated carbons from rattan and bamboo waste for color and COD removal, Ph.D thesis, School of Chemical Engineering, Universiti Sains Malaysia, 2010
3. Ahmed Rahomi Rajab. Treatment of poultry slaughterhouse wastewater using integrated anaerobic-aerobic sequencing batch reactor, Ph.D. thesis, Faculty of Civil Engineering, UTM, 2017.
4. AmirHossein Malakahmad, "An application of zero-waste anaerobic baffled reactor (ABR) to produce biogas from municipal solid waste UKM, Ph.D Thesis, 2006
5. Andreas Aditya Hermawan, Biofiltration system for stormwater management in tropical areas, Ph.D. thesis, The Department of Civil Engineering, Faculty of Engineering, Monash University, Australia, 2018.
6. Athirah Othman, Ph.D. thesis, Faculty of Civil Engineering, Universiti Teknologi Malaysia, 2018
7. Choudhary, A.K. Monitoring and removal of chloro compounds from pulp and paper mill wastewater, Ph.D. thesis, Department Of Paper Technology, Indian Institute Of Technology Roorkee, India, 2013
8. Elnaz Khankhaje, Properties of pervious concrete incorporating oil palm kernel shell and cockle shell, Ph.D. thesis, Faculty of Civil Engineering, UTM, 2017
9. Emad Soliman Mohammed Elmolla, Development of A Treatment System For Antibiotic Wastewater, Ph.D Thesis, Civil Engineering Department, Universiti Teknologi Petronas, 2010
10. Fatimah, Ph. D. (Civil) Thesis, National University of Malaysia (UKM) "GIS Expert System for landfill siting, 2003
11. Gasim Hayder Ahmad Salih, Treatment of petroleum refinery wastewater using multi stage biological reactor, Civil Engineering Department, Universiti Teknologi Petronas, 2012.
12. Hampannavar, U.S. Studies on treatment of sugar industry wastewater with UASB and Hybrid-UASB reactors in parallel, Ph.D. Thesis, Visvesvaraya Technological University, India, 2011, Visvesvaraya Technological University, India, -
13. Hesam Kamyab, Lipid production from palm oil mill effluent (POME) by microalgae, Faculty of Civil Engineering, UTM, 2016.
14. Johan Sohaili, Ph.D. (Civil) Thesis, University Of Technology Malaysia (UTM), "Magnetic effect on the removal of suspended solids in wastewater, 2003
15. Khalida binti Muda, Facultative granular sludge for textile dyeing wastewater treatment , Ph.D. Thesis, Faculty of Civil Engineering, UTM, 2009
16. Latifah binti Abd Manaf, Ph.D. Thesis (Civil), National University of Malaysia (UKM), "Expert system for integrated solid waste management via internet, 2004
17. Md. Nurul Islam Siddique, Co-digestion of petrochemical wastewater with activated manure in continuous stirred tank reactor for methane production, Ph.D. thesis. Faculty of Civil Engineering & Earth Resources, Universiti Malaysia Pahang, 2017.
18. Md. Nurul Islam Siddique, Intensified Continuous Stirred Tank Reactor For Enhanced Degradation Of Petrochemical Waste Water To Methane, Ph.D., Faculty of Engineering Technology, UMP, January 2015.
19. Moh Faiqun Ni'am, Suspended solid removal in wastewater using electrocoagulation and magnet, Ph.D. thesis, UTM, 2011, Universiti Teknologi Malaysia
20. Mohammed Hasan Aqlan Al Mughalles. Treatment and reuse potential of mosque greywater in Yamen, Ph.D. Thesis, Faculty of Engineering and Built Environment, UKM, 2013
21. Mohd Hakim bin Ab Halim. Development of aerobic granular sludge technology for the application of domestic wastewater treatment in Saudi Arabia, Ph.D. thesis, Faculty of Civil Engineering, UTM, 2017.

22. Mohd Nasrullah Bin Zulkifli, Treatment of palm oil mill effluent by electrocoagulation process, Ph.D. thesis, Faculty of Civil Engineering & Earth Resources, Universiti Malaysia Pahang, 2017.
23. Muhammad Asif Latif, Enhanced phosphorus solubility during anaerobic digestion, Ph.D. thesis, University of Queensland Australia, School of Chemical Engineering, Advanced Water Management Centre, Australia, 2016.
24. Ngu Lock Hei, Development and optimization of circular phase separator with dual angle coalescence plates for removal of suspended solids, free and physically emulsified oils from wastewaters, Ph.D. Thesis, Universiti Malaysia Sarawak, 2008
25. Noraziah binti Ahmad, Nutrients availability of composted food waste and sewage sludge for plant growth enhanced with magnetic field, Ph.D. thesis, Faculty of Civil Engineering, UTM, 2017
26. Norazli binti Othman, Penilaian kitaran hidup terhadap pengurusan bersepadu sisa pepejal (plastik elektronik) di Malaysia, Ph.D. Thesis, Fakulti Kejuruteraan dan Alam Bina, Universiti Kebangsaan Malaysia, 2008
27. Norzila Othman, Municipal sludge characteristic and biodegradation of selected PAHs by indigenous bacteria strains, Ph.D. Thesis, Faculty of Civil Engineering, UiTM, 2010
28. Nur Amani Filzah binti Mohd Kamil, Bioremediation of Polycyclic Aromatic Hydrocarbon (PAHs) in Artificially Contaminated Sand, Universiti Teknologi MARA, 2013.
29. Oyeleke Raifu Brown. Potential of kaolin-palm oil fuel ash mixture as sustainable landfill liner material, Ph.D. thesis, Faculty of Civil Engineering, UTM, 2013
30. Puranjan Mishra, Biohydrogen production from palm oil mill effluent via sequential dark-photo fermentation, Ph.D. thesis, Faculty of Engineering Technology, Universiti Malaysia Pahang, 2018
31. Raid Duraid Thanoon, Optimization, characterization and immobilization of alkaline protease from chicken feather and fish fin using mixed culture, Ph.D. thesis, Faculty of Industrial Sciences & Technology, Universiti Malaysia Pahang, 2018.
32. Ravinder Kumar, A study of morphological effect of oxygen reduction catalyst in microbial fuel cells, Ph.D. thesis, Faculty of Engineering Technology, Universiti Malaysia Pahang, 2017
33. S. Om Guru Prakash, Kinetics and biodegradation of phenolic compounds using immobilized whole-cell technique, Ph.D. Thesis, J.S.S Research Foundation, Department of Environmental Engineering, SJ College of Engineering Campus, Mysore, India, 2010
34. Salihi Ibrahim Umar, Removal of heavy metals using sugarcane bagasse derived activated carbon (SCBA) in physical and biological treatment systems, Ph.D. thesis, Civil & Environmental Engineering Department, Universiti Teknologi Petronas, 2017
35. Santhana Krishnan Chandrasekar. Investigation on hydrogen and methane production from palm oil mill effluent through two-stage dark fermentation, Ph.D. thesis, Faculty of Engineering Technology, UMP, 2017.
36. Santhana Krishnan Chandrasekhar, Investigation of hydrogen and methane production from palm oil mill effluent through two-stage dark fermentation, Ph.D. thesis, Faculty of Civil Engineering & Earth Resources, Universiti Malaysia Pahang, 2017.
37. Sariyah Binti Mahdzir. Study on adsorption of dyes-containing wastewater using RHA/CFA sorbent, Ph.D. thesis, School of Civil Engineering, USM, 2017.
38. Shahabaldin Rezaia, Raw material from water hyacinth as the alternative energy-fuel and bioremediation applications, Faculty of Civil Engineering, UTM, 2016
39. Shantha Kumari A/P Muniyandi, Encapsulation of toxic nonmetallic printed circuit board waste with recycled high density polyethylene for composite material production, Ph.D., Faculty of Civil Engineering, UTM, 2015.
40. Sharifah binti Abdullah. Development of integrated kenaf core cellulose nanofiltration flat sheet membrane system for batik wastewa, Faculty of Civil Engineering, UiTM, 2016
41. Siti Suhaila binti Mohamad, Nonmetallic printed circuit board waste and magnetic water as cement replacement in mortar, Ph.D. thesis, Faculty of Civil Engineering, Universiti Teknologi Malaysia, 2018
42. Studies on treatment of hard chrome plating effluents', Ph.D. thesis, Indian Institute of Technology, Kanpur, 2003.
43. Syaiful Akhmal Saadom, Development of local adsorbent material for efficient and economic removal of arsenic from aqueous solution, Ph.D. thesis, Faculty of Civil Engineering, Universiti Teknologi Malaysia, 2018
44. Taimur Khan. Rice husk-based adsorbents for the treatment of metal finishing wastewater, Faculty of Civil Engineering, UTP, 2016
45. Tandel Bhaven Nirmalbai, Urban road traffic noise: Prediction optimization model using Genetic Algorithm and Audiometric assessment, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, Ichchhanath, Surat-395007 (Gujarat), India, 2014
46. Tiew Kian Ghee, Developing solid waste recycling management model for Malaysia based on community behaviours studies, Ph.D., Faculty of Engineering and Built Environment, UKM, 2016.
47. Tijani Hamzat Ibiyeye, Biomethanation of microalgae biomass in anaerobic digestion system, Ph.D. thesis, Faculty of Biosciences and Medical Engineering, UTM, 2017
48. U.S. Shivayogimath, Studies on treatment of sugar industry wastewater with UASB and Hybrid-UASB reactors in parallel. Ph.D. Thesis, Department of Civil Engineering, Basaveshwar Engineering College, Bagalkot, India, 2011
49. Umarani, R. Enhancing the sludge reduction potential of dairy waste activated sludge by various physic

chemical pretreatments, Ph.D. thesis, Anna University, Faculty Of Civil Engineering, Chennai 600025, India, 2013
50. Zarasvand Asadi, Development of stepped solar still for treatment of sanitary and industrial wastewaters, Rada, Universiti Kebangsaan Malaysia, Faculty of Engineering and Built Environment, 2012.
M.Sc.
1. Abdurahman Saleh Mahmud, Treatment and phytoremediation of leachate from Bukit Tagar Landfill, M.Sc. candidate, Institute of Biological Science, Faculty of Science, M.Sc. Thesis, University of Malaya, 2011
2. Ahmad Nazmi Bin Roslan, Quality Improvement of landfill Leachate by electrocoagulation process, Faculty of Civil Engineering, University of Technology Malaysia, 2013.
3. Aida binti Muhamad, "Study on metal and PAHs compound pollutions at Sembrong River, Batu Pahat, Civil & Environmental Engineering Department, KUiTTHO, M.Sc. Theisi, 2007
4. Alaribe Frank Ogenna, Utilization of landfill leachate as a multi-nutrient fertilizer for the cultivation of Brassica rapa L. And Zinnia violacea, Department of Civil Engineering, University of Malaya, 2009.
5. Aw Li Chuen, M.Sc. Thesis, Sabah Malaysia University (UMS), "Removal of heavy metals from acid mine drainage using selected calcareous materials, 2004
6. Azra Munirah binti Mat Daud (Civil) University Of Technology Malaysia (UTM), "Industrial wastewater treatment using TiO2 catalyst using low voltage electrical energy, M.Sc. Thesis, 2002
7. Beh Shiau Hewi, Evaluation of the potential reduction in landfill gas emissions through composting, University of Malaya, 2013.
8. Domestic wastewater treatment by using down-up flow septic tank combined with submerged sand filter, M.Sc. Thesis, University of Malaya (UM), 2005
9. Domestic wastewater treatment by using down-up flow septic tank combined with submerged sand filter', M.Sc., University of Malaya (UM), 2005
10. Emenike Chijioke Uche, Landfill leachate toxicity studies on fish (Pangasius sutchi & Clarias batrachus) and soil microbes, M.Sc. Thesis, Institute of Biological Science, Faculty of Science, University of Malaya, 2010
11. Frank Ogenna, Utilization of landfill leachate as a multi-nutrient fertilizer for the cultivation of Brassica rapa L. And Zinnia violacea, Alaribe M.Sc. thesis, Department of Civil Engineering, University of Malaya, 2009
12. Habsah binti Alwi, "Coagulant from banana stem juice for treatment of obstinate spent coolant, M.Sc. Thesis, Chemical Engineering Department, UiTM, 2007, 2007., National
13. Hengky Kurniawan Salim, EMS improvement in Indonesia. Master of Philosophy thesis, Malaysian Japan International Institute of Technology, UTM, 2017.
14. Lim Yee Nah, "Treatment of industrial wastes using granular activated carbon (GAC), M.Sc. Thesis, University of Malaya, 2006
15. Liyana Izzati binti Aris, Analysis of plastic debris on Malaysian beaches, Master of Technology (Environmental Management), University of Malaya, 2012
16. Liza Evianti Tanjung, Assessment of heavy metal deposition in surface sediment and water in Balok river and Tunggak river Kuantan Malaysia, M.Sc. Thesis, Universiti Malaysia Pahang, 2012.
17. Md. Imtiaz Ali, Master of Science (Civil) Thesis, University Of Technology Malaysia (UTM), "Removal of phenol from leachate by modified oil palm shell (MOPAS), 2000
18. Mohammad Arif Budiman Bin Fauzan, Batch microcosm studies of landfill leachate, M.Sc., Faculty of Civil Engineering, UTM, 2016.
19. Mohammad Safwan Mohd Yani, Heavy Metal Removal by Vetiveria Zizanioides and Artificial Roots, Faculty of Civil Engineering, University of Technology Malaysia, 2013.
20. Mohammed Masoud Salim Ali-Shakali, Physico-chemical treatment of Bukit Tagar landfill leachate using Alum and Poly-aluminium chloride (PAC), M.Sc. thesis, Institute of Biological Science, University of Malaya, 2008
21. Ms Gracie Chong Shih Chin, M.Eng. Thesis, Malaysia University of Sarawak (UNIMAS), "A model for prediction of nearby population and implant workers exposures to air pollutants released from industrial facilities, 2003
22. Muhamad Fahmi bin Shukor, Batch microcosm studies of landfill leachate, M.Sc., Faculty of Civil Engineering, UTM, 2016.
23. Muhammad Asif Latif, Application of upflow anaerobic sludge blanket (UASB) reactor for waste and wastewater treatment with biogas production, M.Sc Thesis, UMP, 2011, Universiti Malaysia Pahang.
24. Muhammad Nabil Fikri bin Yahaya, Characterization of polyvinylidene fluoride hollow fiber membrane with antifoulant nanoparticles for advanced water treatment, M.Sc., Faculty of Civil Engineering, UTM, 2015.
25. Musa Mutah Lalai, Sugarcane Bagasse Activated Carbon with Hydrated Iron Modification for the Removal of Cadmium, Faculty of Civil Engineering, University of Technology Malaysia, 2013.
26. Nawal binti Shaharuddin, Energy recovery from sludge management, M.Sc., Faculty of Civil Engineering, UTM, 2015
27. Newati binti Wid, "Adsorptive removal of cationic and anionic dyes from solutions using iron oxide-coated zeolite (IOCZ), UMS, M.Sc. Thesis, 2006
28. Nur Ain Farhana Binti Hj. Ghani, Rapid extraction of fertilizer from palmoil mill effluent (POME) using magnesium ammonium phosphate (MAP) precipitation method and fechloropolyacetamide (FeCP) electrolyte system, M.Sc. thesis. Faculty of Civil Engineering & Earth Resources, Universiti Malaysia Pahang, 2017.

29.	Nur Anis Ahmad Lutpi, Removal efficiency of Acetaminophen and Bisphenol A in water using ozonation process, M.Sc., Faculty of Civil Engineering, UTM, 2015.
30.	Onn Chiu Chuen, The formulation of life cycle impact assessment (LCIA) framework for Malaysia using Eco-indicator , M.Sc. thesis, Department of Civil Engineering, University of Malaya, 2009
31.	Oyeleke Raifu Brown, Potential of Kaolin-Palm Oil Fuel ASH misture as sanitary landfill liner, Universiti Teknologi Malaysia, Faculty of Civil Engineering, 2012.
32.	Rosmawati Abdul Aziz, M.Sc. Thesis, University of Technology MARA (UiTM), "Encapsulation technology for industrial solid waste, 2004
33.	Rumana Ghufuran, Enhanced anaerobic degradation of palm oil mill effluent using butyrate, CaO-CKD and denitrifying sulfide removal, Ph.D., Universiti Malaysia Pahang, 2012
34.	Salim Said Salim Al Maskari, "Physico-chemical treatment of Bukit Tagar landfill leachate using Praestol 189K and aluminium Chloride, M.Sc. Thesis, Institute of Biological Science, University of Malaya, 2008
35.	Sanaz Sarafraz, Wastewater treatment using horizontal subsurface flow constructed wetland, M.Sc. thesis, Fakulti Kejuruteraan, Universiti Putra Malaysia, 2008
36.	Siti Nur Syahira binti Mohd. Adnan, Analysis and assessment of sediment quality and soil geochemistry of Ampar Tenang landfill site, Selangor, Malaysia, (KGA110086), University of Malaya, Faculty of Engineering, 2012
37.	Sri Norleha Binti Basri, Removal of heavy metal ions from aqueous solution by carboxymethyl sago starch and carboxymethyl sago starch/chitosan hydrogels, M.Sc., Faculty of Science, UPM, 2015.
38.	Sumathi a/p Balasubramaniam, M.Sc. Thesis, University of Malaya (UM), "Solidification and stabilization of electronic industry waste, 2004
39.	Syamimi binti Md Jamal. Characterization of alginate-like exopol exopolysaccharides from aerobic granules treating industrial wastewater, M.Sc. thesis, Faculty of Bioscience and Medical Engineering, UTM, 2016
40.	Tengku Hazmin Hanum Tengku Hamzah, "Pollutant profiles during all leachate attention in momogeneous medium, M.Sc. Thesis, Faculty of Civil Engineering, UiTM, 2008
41.	Zawawi bin Daud, Master of Science (Civil) Thesis, University Of Technology Malaysia (UTM), Water quality model of Semberong River using Qualze software-Case study, 2000
42.	Zularisam Ab. Wahid, Master of Science (Civil)Thesis, University Of Technology Malaysia (UTM), "The use of magnetic field in domestic wastewater treatment, 2001
43.	Zulfa, 'Leachate treatment by magnetic field,Ph.D., Faculty of Civil Engineering, UTM, 2008.
iii) Internal Examiner	
1.	Abdullahi Abdulrahm, Development of geoelectrical techniques for subsurface characterization and contaminant plume mapping at landfill sites, Ph.D. thesis, School of Physical Sciences, USM, 2016.
2.	Adel Ali Saeed Abduh, 'Reduction of pathogenic bacteria, sorption of heavy metals and enzymatic biodegradation of B-Lactam Antibiotics in sewage treated effluents, School of Industrial Technology, USM, June 2013
3.	Afifah Ayob, "Composting of municipal solid waste', M.Sc., School of Civil Engineering, USM, June 2005.
4.	Ahmad Zuhairi Abdullah, Master of Science, University of Science Malaysia (USM), 'Treatment of palm oil effluent by random media tricking filter PVC', M.Sc., 2000.
5.	Al Faqeh, Omar Saeed M. The impact of training strategies to develop human resources in the national water company in the Kingdom of Saudi Arabia, School of Housing, Building & Planning, USM, 2013.
6.	Al Faqeh, Omar Saeed M. The impact of training strategies to develop human resources in the national water company in the Kingdom of Saudi Arabia, School of Housing, Building & Planning, USM, 2013.
7.	Goh Hui Weng, Influence of enhanced bioretention media and tropical shrub on nutrient removal for urban runoff in mixed development area, River Engineering and Drainage Research Center, USM, 2016.
8.	Husna Binti Takaijudin. Development of bioretention facility: Benchmarking hydraulic conductivity in engineered soil media for stormwater runoff treatment, Ph.D. thesis, REDAC, USM, 2016.
9.	Husnuul Azan, 'Anaerobic digestion of municipal solid waste', M.Sc., Civil Engineering, USM, 2007
10.	Kharunisa Nadiyah Hussain Synthesis and characterization of PSf-SiO2 mixed matrix membrane oil emulsion, Universiti Sains Malaysia, School of Chemical Engineering, 2012.
11.	Law Meow Hua, 'Study on the removal of physical and chemical parameters in leachate using zeolite and limestone mixture', M.Sc., School of Civil Engineering, USM, May 2005
12.	Noor Faizah Fitri Md Yusof, 'Predicting air pollutants using probability distributions-A case study of Penang', M.Sc., School of Civil Engineering, USM, June 2005.
13.	Noor Zaitun Haji Yahya, M.Sc. (Civil), University of Science Malaysia (USM), 'Air pollution from vehicle in Ipoh', 2003.
14.	Nor Akmal Rizal Mansor, Potential of durian seed as a natural coagulant in treating printing industry wastewater, Universiti Sains Malaysia, School of Civil Engineering, 2012.
15.	Norshafa Elyza Muha, 'Leachate treatment by granular activated carbon', M.Sc., School of Civil Engineering, USM, May 2005.
16.	Papa Secka, M.Sc., University of Science Malaysia (USM), 'Municipal solid waste landfill leachate characterization and treatment', 2002.
17.	Preparation and characterization of mesoporous activated carbons from rattan and bamboo waste for color and COD removal, Abdulbari Abdulrahman Ahmad, Ph.D candidate, School of Chemical Engineering,

Universiti Sains Malaysia, 2010
18. Siti Zubaidah Binti Ahmad. Fuzzy logic-ordered weighted average model for municipal solid waste landfill site selection using comprehensive spatial environmental, Ph.D. thesis, School of Civil Engineering, USM, 2017.
19. Tengku Ismadi, M.Sc, 'Metals removal by modified Activated carbon', School of Materials & Mineral Resources Engineering, USM, 2004
20. The development of a low cost static olfactometer for environmental odour assessment, M.Sc. candidate, School of Civil Engineering, Universiti Sains Malaysia, 2014
21. Yong Rashidah Binti Mat Tuselim@ Selamat, Master of Science, University of Science Malaysia (USM), 'A study on the effectiveness of using a bio-physical pilot plant RBC- sedimentation as a secondary treatment of leachate', M.Sc., 2002.
iv) External Assessor for Promotion
Professor
1. Assessor for an appointment for the position of Professor, Civil Engineering Department, Universiti Teknologi PETRONAS
2. Assessor for an appointment for the position of Professor, Civil and Environmental Engineering Department, Universiti Tun Hussein Onn
3. Assessor for an appointment for the position of Professor, Department of Agricultural Engineering, The Federal University of Technology, Akure, Nigeria
4. Assessor for an appointment to post Professor, Faculty of Civil Engineering, UTM, July 2016
5. Assessor to the post of Professor, Universiti Teknologi Brunei (UTB), March 2017
6. External Assessment for promotion exercise to Professor, University of Haripur, Khyber Pakhtunkhwa, Hattar Road, Near Swat Chowk, Tehsil & District, Haripur, Pakistan, April 2015.
7. External Assessor for promotion exercise to Professor, Faculty of Engineering and Built Environment, UKM, June 2015.
8. External promotion (Professor), Universiti Tuanku Abdul Rahman, 2008
9. External Promotion Assessor (Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), 2013.
Associate Professor/Senior Lecturer
1. Assessor for an appointment for the position of Assoc. Prof., Malaysia-Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia, (Ref. UTM.K.43/12.18/1/9 Jld. 2 (24) dated 2 Jun 2017)
2. Assessor for an appointment to post Associate Professor, Department of Aeronautical Engineering, UPM, September 2016
3. Assessor for an appointment to post Associate Professor, Faculty of Civil Engineering, UTM, August 2016
4. Assessor for an appointment to post Associate Professor, Faculty of Civil and Environmental Engineering , UTHM, April 2016
5. External Assessor for promotion exercise to Associate Professor, Faculty of Civil Engineering, UTM, May 2015a.
6. External Assessor for promotion exercise to Associate Professor, Faculty of Civil Engineering, UTM, May 2015b.
7. External Assessor for promotion exercise to Associate Professor, Faculty of Engineering and Built Environment, UKM, April 2015.
8. External Assessor for promotion exercise to Associate Professor, Faculty of Civil and Environmental Engineering, UTHM, November, 2015.
9. External assessor for the ITB International Research Program 2008, entitled Methane Oxidation Capacity of Different Cover Materials Adapted to Indonesian Landfill Enri Damanhuri
10. External Promotion Assessor (Associate Prof.), Department of Civil Engineering, University of Putra Malaysia (UPM), April 2014
11. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), 2007.
12. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), 2003.
13. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University Tun Hussein Onn (UTHM), 2011.
14. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), March, 2013.
15. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering & Earth Resources, Universiti Malaysia Pahang (UMP), 2013.
16. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), July, 2013.
17. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), March 2014
18. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University of Technology

Malaysia (UTM), August 2014
19. External Promotion Assessor (Associate Prof.), Faculty of Engineering, National University of Malaysia (UKM), 2003.
20. External Promotion Assessor (Associate Prof.), Faculty of Science, University of Technology Malaysia (UTM), August, 2013.
21. External Promotion Assessor (Associate Prof.), Pusat Pengajian Sains Sekitaran & Sumber Alam, UKM, 2012
22. External Promotion Assessor (Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), May 2013.
23. External Promotion Assessor (Reader), Faculty of Agricultural Engineering, The Federal University of Technology, Akure, Nigeria, September 2014
24. External Promotion Assessor (Senior Lecturer) (Contract) at Universiti Teknologi Malaysia, Faculty of Civil Engineering, 2012.
v) Assessor/Professional Examiner
1. Appointed individual, Ministry of Science, Technology and Innovation, for (EIA Technical Review Committee, EIATRC) to Evaluate The Terms of Reference, TOR) and The Detailed EIA at PTD 1699,180 Acre Sedili Kecil, Kota Tinggi District, Johor Darul Ta'zim for A Development of a Sanitary Landfill for Lembaga Bandaran Johor Tenggara (LBJT), March 2017
2. Assessor for the appointment of registered EIA consultant by the Department of Environment Malaysia. M.Sc. Thesis, University of Malaya, 2009.
3. Assessor for the appointment of registered EIA consultant by the Department of Environment Malaysia, 2007.
4. Detailed EIA review expert panel, appointed by MOSTI for proposed Iron Ore Pellet Plant• at Teluk Kalong Industrial Estate, Kemaman Terengganu Oleh Tetuan Grange Resources Ltd (Australia), 2005.
5. Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill at Mukim Jeram, Daerah Kuala Selangor, Selangor Darul Ehsan, 2006., National
6. Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill at Sungai Udang Melaka, 2010.
7. Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill at Belengu Mukim Perak, District Of Temerloh, Pahang Darul Makmur, 2010.
8. Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill at Tanah Merah, Negeri Sembilan, 2011.
9. Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill at Mukim Titi Tinggi, Perlis, 2011,
10. Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill at Teluk Mengkudu Manjung, Perak, 2011
11. Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill On Lots 8260 And Pt15315 At Kg Tertak Batu Mukim Rusila, District Of Marang Terengganu, 2011., National
12. Detailed EIA Technical Committee Member, Minstry of Science, Technology and Innovation, for the proposed construction of Waste to Energy to WtE) plant at Kepong Solid Waste Transfer Station, Kuala Lumpur, February 2016.
13. Detailed Environmental Impact Assessment For The Proposed Waste Detailed EIA review expert panel, appointed by MOSTI for proposed Transfer Station At Section 21, Shah Alam, Selangor Darul Ehsan (SATS), 2006
14. Detailed Environmental Impact Assessment Report, Environmental Management Plan (EMP) and Erosion and Sediment Control Plan for the Development of forest plantation in Gunung Inas forest reserved Mukim Bakai, Kupang and Pulau District of Baling, Kedah Darul Aman, by Perbadanan Menteri Besar Kedah Sdn. Bhd., 2013
15. Expert Panel for Evaluation of Best And Final Offer (BAFO) for a proposed construction of Waste-To-Energy at Kepong, Kuala Lumpur Transfer station under Private Funding Initiatives, 2016-2017
16. Expert Panel for Evaluation of Detailed Environmental Impact Assessment on the Proposed Expansion Of 130.55 Acres Sanitary Landfill At Mukim Jeram, District Of Kuala Selangor, Selangor Darul Ehsan" By Unit Perancang Ekonomi Negeri Selangor, August 2016.
17. Expert Panel for Evaluation of Request for Proposal (RFP) for a proposed construction of Waste-To-Energy at Kepong, Kuala Lumpur Transfer station under Private Funding Initiatives, 2016-2017
18. Invited by Department of Environment, MOSTI, As Expert Panel In Evaluating The Terms Of Reference, TOR) For Detailed EIA for the Proposed Project Entitled "Sanitary Landfill" at Mukim Jeram, Kuala Selangor District, Selangor Darul Ehsan, 4 October 2006
19. Invited by Department of Environment, MOSTI, As Expert Panel In Evaluating The Terms Of Reference, TOR) For Detailed EIA for the Proposed Project Entitled "Sanitary Landfill" at Kuala Langat, Selangor Darul Ehsan, 2007
20. Invited by Department of Environment, MOSTI, As Expert Panel In Evaluating The Terms Of Reference, (TOR) For Detailed EIA for the Proposed Project Entitled "Iron Ore Pellet Plant",Teluk Kalong Industrial Estate, Kemaman Terengganu By Tetuan Grange Resources Ltd (Australia), 18 October 2005

21. Invited by Department of Environment, MOSTI, to evaluate the Detailed EIA Report for the Proposed Project Entitled "Iron Ore Pellet Plant", Teluk Kalong Industrial Estate, Kemaman Terengganu By Tetuan Grange Resources Ltd (Australia)., July 2006
vi) Assessor for Professional Membership
1. Assessor for a membership at the Association of Professional Engineers and Geoscientists of Alberta, Candidate Dr. Rezaur Rahman Bhuiyan, May 2013
c) Visiting Professor / Other Appointment (Inclusive Chair)
1. Visiting Professor, Department of Civil Engineering, Fukuoka University, Japan, 19-23 November 2013
2. Visiting Professor, Institute Forel, University of Geneva, Switzerland, 14-20 September 2015
3. Visiting Research Fellow to Department of Environmental Engineering, Kyoto University, Japan, under JSPS Programme, 29 August to 11 September 1997
4. Visiting Research Fellow to Kyoto University Japan under the Memorandum of Understanding for Scientific Cooperation between JSPS (Japan Society for the Promotion of Science) and VCC (Vice-Chancellors' Council of National Universities in Malaysia). Activities in Prospects: Dynamic performance of environmental trace contaminants and the related health risks, 15 July to 23 July 2000
5. Visiting Research Fellow to Kyoto University Japan under the Memorandum of Understanding for Scientific Cooperation between JSPS (Japan Society for the Promotion of Science) and VCC (Vice-Chancellors' Council of National Universities in Malaysia), 9 th to 20 th . December 2003
6. Visiting Research Fellow to visit Kyoto University Japan under the Memorandum of Understanding for Scientific Cooperation between JSPS (Japan Society for the Promotion of Science) and VCC (Vice-Chancellors' Council of National Universities in Malaysia). Activities in Prospects: Dynamic performance of environmental trace contaminants and the related health risks, 2 nd . to 10 th . February 2002
7. Visiting Scientist to visit Kyoto University Japan under the Memorandum of Understanding for Scientific Cooperation between JSPS (Japan Society for the Promotion of Science) and VCC (Vice-Chancellors' Council of National Universities in Malaysia). Activities in Prospects: Basic Environmental Technology for Zero Discharge-Solid Waste Management & Incineration. 18-30 September 2006.
d) Academic or Professional Journals / Assessor of Working Papers
Has reviewed papers from the following journals:
1. Academia Journal of Environmental Sciences
2. Advancement in Scientific and Engineering Research
3. Advances in Environmental Research, An international Journal
4. Advances in Water Resource and Protection
5. African Journal of Agricultural Research
6. African Journal of Biotechnology
7. African Journal of Engineering Research
8. African Journal of Environmental Science and Technology
9. African Journal of Microbiology Research
10. Agricultural Science Research
11. AIP Conference Proceedings
12. American Chemical Science Journal
13. Applied Biochemistry and Biotechnology
14. Applied Clay Science
15. Applied Water Science
16. Arabian Journal of Chemistry
17. Archives of Environmental Science
18. Biomass and Bioenergy
19. Bioprocess and Biosystems Engineering
20. Bioremediation Journal
21. Bioresource Technology
22. Biotechnology and Applied Biochemistry
23. Brazilian Journal of Chemical Engineering
24. British Journal of Applied Science & Technology
25. Chemical Engineering Journal
26. Chemical Speciation & Bioavailability
27. Chemistry and Ecology
28. Chemosphere
29. Chinese Journal of Engineering
30. Clean-Soil, Air, Water
31. Cogent Engineering
32. Cogent Environmental Science
33. Current Green Chemistry

34. Data in Brief
35. De Chimie
36. Desalination
37. Desalination and Water Treatment
38. Ecological Engineering
39. Encyclopedia Science and Technology
40. Engineering Journal
41. Engineering Journal
42. Environment and Earth Science International
43. Environmental Earth Sciences
44. Environmental Engineering and Management Journal
45. Environmental Engineering Science
46. Environmental Monitoring and Assessment
47. Environmental Progress
48. Environmental Progress & Sustainable Energy
49. Environmental Protection Engineering
50. Environmental Science & Technology
51. Environmental Science and Pollution Research
52. Environmental Technology
53. Faculty of Science Bulletin Faculty of Science - Sanaa University
54. Frontiers of Environmental Science & Engineering in China
55. Fuel
56. Global GNEST Journal
57. Global Journal of Environmental Science & Technology
58. Herald Journal Marketing And Business Management
59. Hindawi Publishing Corporation
60. International Journal of Biochemistry and Biotechnology
61. International Journal of Biological Macromolecules
62. International Journal Of Chemical Reactor Engineering
63. International Journal of Disaster Resilience in the Built Environment
64. International Journal of Educational Research and Development
65. International Journal of Engineering
66. International Journal of Engineering and Technology Innovation
67. International Journal of Engineering, Iran
68. International Journal Of Environment And pollution
69. International Journal of Environment and Pollution
70. International Journal of Environment And Waste Management
71. International Journal of Environmental Analytical Chemistry
72. International Journal of Environmental Engineering and Science
73. International Journal of Environmental Engineering, 2011
74. International Journal of Environmental Pollution
75. International Journal of Environmental Pollution and Remediation
76. International Journal of Environmental Research
77. International Journal of Geomate
78. International Journal of Green Energy
79. International Journal of Microbiology
80. International Journal of Modern Science
81. International Journal of Natural Resources and Marine Sciences
82. International Journal of Natural Resources and Marine Sciences
83. International Journal of Industrial Chemistry
84. International Journal of Phytoremediation
85. International Journal of Science and Technology
86. International Journal of Scientific Research
87. International Journal of Water Resources and Environmental Engineering
88. International Research Journal of Microbiology
89. International Research Journal of Pure and Applied Chemistry
90. Iranian Journal of Environmental Health Science & Engineering
91. Iranian Journal of Health, Safety and Environment
92. ISABB Journal of Food and Agricultural Sciences
93. ISABB Journal of Health and Environmental Sciences
94. Jambá: Journal of Disaster Risk Studies
95. Journal Environmental Progress
96. Journal Environmental Research Public Health
97. Journal Industrial & Engineering Chemistry Research

98. Journal Institution of Engineers Malaysia
99. Journal Material Environmental Science
100. Journal of Advanced oxidation technologies
101. Journal of Advanced Research
102. Journal of Advances in Biology & Biotechnology
103. Journal of Agricultural Science and Technology
104. Journal of Bioremediation & Biodegradation
105. Journal of Chemistry
106. Journal of Cleaner Production
107. Journal of Colloid Science and Biotechnology
108. Journal of Construction in Developing Countries
109. Journal of Desalination and Water Purification
110. Journal of Earth & Environmental Sciences
111. Journal of Engineering Research And Technology
112. Journal of Engineering Science & Technology
113. Journal of Engineering, Tun Hussein Onn University Malaysia
114. Journal of Environmental and Public Health
115. Journal of Environmental Chemical Engineering
116. Journal of Environmental Engineering
117. Journal of Environmental Management
118. Journal of Environmental Science and Health
119. Journal of Environmental Sciences
120. Journal of Geography and Regional Planning
121. Journal of Hazardous Materials
122. Journal of Industrial and Engineering Chemistry
123. Journal of Industrial and Engineering Chemistry
124. Journal of Industrial Technology
125. Journal of Material Cycles and Waste Management
126. Journal of Molecular Liquids
127. Journal of Oil Palm Research
128. Journal of Photochemistry and Photobiology B: Biology
129. Journal of Physical Science
130. Journal of Science and Technology
131. Journal of Scientific Research and Reports
132. Journal of Taibah University for Science
133. Journal of Testing and Evaluation
134. Journal of the Association of Arab Universities for Basic and Applied Sciences
135. Journal of the Chemical Society of Pakistan
136. Journal of the Saudi Society of Agricultural Sciences
137. Journal of the Taiwan Institute of Chemical Engineers
138. Journal of Toxicology and Environmental Health Sciences
139. Journal of Water Process
140. Journal of Water Process Engineering
141. Jurnal Teknologi
142. KSCE Journal of Civil Engineering
143. Maejo International Journal of Science and Technology
144. Malaysian Journal Of Civil Engineering
145. Malaysian Journal of Science
146. Marine Pollution Bulletin
147. Microbiol Biotechnology
148. Municipal Solid Waste Management in Kohima City, Nagaland
149. Ozone: Science & Engineering
150. Pakistan Journal of Engineering and Applied Sciences
151. Peak Journal of Physical and Environmental Science Journal
152. Perantara
153. PERTANIKA
154. Process Biochemistry
155. Process Safety and Environmental Protection
156. Recent Patents On Biotechnology
157. Renewable & Sustainable Energy Reviews
158. Science of the Total Environment
159. Scientific Research and Essays
160. Separation and Purification Technology
161. Separation Science and Technology

162.Songklanakarin Journal of Science and Technology
163.Songklanakarin Journal of Science and Technology
164.SpringerPlus
165.Technique, Scientific Research and Essays
166.The Korean Journal of Chemical Engineering
167.The Scientific World Journal
168.Waste Management
169.Waste Management & Research
170.WATER
171.Water and Environment Journal
172.Water Environment Research
173.Water Research
174.Water Science and Technology
175.Water, Air, & Soil Pollution
176.World Applied Sciences
177.World Applied Sciences Journal
178.Wudpecker Research Journals
e) Member of Academic Body / Scientific Forum Panel
1. Advisor for a Hands.On Training On Industrial Wastewater Analysis, 14-15 December 2016, USM.
2. Advisory Board Committee For The International Conference on Civil and Environmental Engineering for Sustainability (IGonCEES 2015), UTHM, 1-2 December 2015.
3. Arab Healthy Water Association (AHWA), member of abroad advisor, 2006 to date. The Arab Healthy Water Association is a non-governmental, non-profit body, legally registered at the Ministry of Social Affairs (MOSA) by decree No. 6086/2005, Cairo-Egypt.
4. Detailed EIA Technical Committee Member, Ministry of Science, Technology and Innovation, for the proposed construction of Waste to Energy (WtE) plant at Kepong Solid Waste Transfer Station, Kuala Lumpur, February 2016.
5. Expert Panel for Evaluation of Best And Final Offer (BAFO) for a proposed construction of Waste-To-Energy at Kepong, Kuala Lumpur Transfer station under Private Funding Initiatives, 2016-2017
6. Expert Panel for Evaluation of Detailed Environmental Impact Assessment on the Proposed Expansion Of 130.55 Acres Sanitary Landfill At Mukim Jeram, District Of Kuala Selangor, Selangor Darul Ehsan" By Unit Perancang Ekonomi Negeri Selangor, August 2016.
7. Expert Panel for Evaluation of Request for Proposal (RFP) for a proposed construction of Waste-To-Energy at Kepong, Kuala Lumpur Transfer station under Private Funding Initiatives, 2016-2017
8. Expert Panel for Evaluation of Terms Of Reference, Tor On The Proposed Expansion Of 130.55 Acres Sanitary Landfill At Mukim Jeram, District Of Kuala Selangor, Selangor Darul Ehsan" By Unit Perancang Ekonomi Negeri Selangor, January 2015.
9. Fellow, International Congress of Chemistry & Environment (FICCE), March 2003 to date
10. Graduate Member, Board of Engineer Malaysia, 1992 to date
11. Graduate Member, Institution of Engineers Malaysia (IEM), Membership No. 10401G, 1992 to date.
12. Graduate Member, The Institution of Engineers, Malaysia, 1997 to date
13. Head of Publication Committee, International Conference of Global Network for Innovative Technology (IGNITE) and AWAM International Conference in Civil Engineering IGNITE-AICCE'17, 8-10 August 2017, Penang, Malaysia.
14. Honorary Advisory Member, Hands.On Training On Industrial Wastewater Analysis, USM, 14-15 December 2016.
15. International Committee Member, International Conference on Recent Trends in Science, Engineering and Technology (ICRTSET – 2015), 8 th February, Chennai, India.
16. Life Member, Association for Development of Teaching, Education and Learning (ADTEL) (Membership ID: ADTEL-M18618), 2018 to date
17. Member in the Dialogue Session with Minister of Housing and Local Government on the Development of National Solid Waste Management Policy, 23 June 2006
18. Member of the External panel for selection of the best researcher 2013, Universiti Malaysia Sabah, 2013
19. Member of the International Advisory Committee, Center of Excellence in Environmental Science (CEES), King Abdul Aziz University, Jeddah Saudi Arabia, 2011 to date
20. Member of the Organising Committee, ICES 2016: International Conference on Environmental Sciences, Dubai, UAE, 10-11 August 2016.
21. Member of the Organising Committee, International Conference of Global Network for Innovative Technology (IGNITE) and AWAM International Conference in Civil Engineering IGNITE-AICCE'17, 8-10 August 2017, Penang, Malaysia.
22. Member of the Organising Committee, Water Security Conference, SERC, USM, Penang, 10-11 May 2016.
23. Member of the Review Committee, FRGS, PRGS and TRGS grants, Ministry of Higher Education Malaysia, April 2015
24. Member of the Review Committee, Science Fund grant, Ministry of Science, Technology and Innovation,

Malaysia, December 2015.
25. Member of the Scientific Committee, 1st. International Congress-Civil Engineering and durable development, Faculty of Science and Technology, University of Tebessa, Algeria, 17-19 October 2011
26. Member of the Technical Committee, 2014 Flood research Conference, UTM and MOHE, Kuala Lumpur, 4-6 April 2016
27. Member of the Technical Committee, Water Security Conference, SERC, USM, Penang, 10-11 May 2016.
28. Member of the Water Resource Summit Series Conferences and 1st Global Conference on Geotechnical and Water Resource Engineering Summit, Macau, Hong Kong; September 18-19, 2017, Conference Series.com.
29. Member of the Working Group on Site Remediation (WG/Z/10-2), SIRIM, 2007 to date
30. Member, Environmental Research Association of Malaysia (ENSEARCH), 1994 to date
31. Member, GEOMATE 2016 Technical Program Committee (TPC), Bangkok, 2016.
32. Member, International Association of Water Quality (IAWQ), 1992 to 2000
33. Member, International Society for Development and Sustainability (ISDS), Membership ID: M141651, Japan, 2014 to date.
34. National Solid Waste Management Technical Committee, Ministry of Urban Wellbeing, Housing and Local Government Malaysia, 2007 to date.
35. National Solid Waste Management Technical Committee, Ministry of Urban Wellbeing, Housing and Local Government Malaysia, 2007 to date.
36. Organising Committee Member, 1 st Posgraduate Conference 2015 on Protection of Drinking Water for Society: Source Abstraction and Treatment, 10-11 February, BATC, UTM, KL
37. Organizing Committee Member, World Congress and Exhibition on Construction and Steel Structure (Steel Structure-2015), November 16-18, 2015 at Dubai, UAE.
38. Panel member of the progress PRGS grants, Ministry of Higher Education Malaysia, November 2015.
39. Registered graduate engineer, Board of Engineers Malaysia, Membership No. LJM15116A, 1996 to date.
40. Registered Member of the Environmental Professional Register of Malaysia (EPRM), Membership No. 014, Registered on 21/11/96
41. Technical Committee Evaluation Committee, FRGS Grant Cycle 1/2016, USM.
42. Technical Committee Member of Solid Waste Management Committee, Ministry of Housing and Local Government (Appointment by the Minister), May 2006 to date
43. Technical Committee Member, 10th International Conference on Environmental and Computer Science (ICECS 2017), Ottawa, 13-15 September 2017.
44. Technical Committee Member, International Conference on Recent Advances in Civil Engineering (ICRACE-2017), May 4-5, 2017, MMU- Mullana, India.
45. Technical Evaluation Committee, Pre-qualification questionnaire (PQQ), Proposal for Waste to Energy Project at Solid Waste Transfer Station, Kepong under Public Private Partnership Unit, Prime Minister's Department, Malaysia, 08 May 2014 to date
46. Technical Evaluation Committee, Request for tender (RFP), Proposal for Waste to Energy Project at Solid Waste Transfer Station, Kepong under Public Private Partnership Unit, Prime Minister, Department, Malaysia, 08 May 2014 to date.
47. Technical reference, Resource Recycling Management Department, Pacific Consultants Co., Ltd., Japan, 2012
f) Editorial
a) ISI
1. Scientific Advisory Board Environmental Engineering and Management Journal (EEMJ) () (ISI).
2. Member of the Editorial Board, Advances in Environmental Research, An International Journal (AER), Techno Press (ISI)
3. Turkish Journal Of Engineering & Environmental Sciences (ISI), up to 2016
b) SCOPUS/ERA
1. Associate Editor, Journal of Environmental Science and Technology, Asian Network for Scientific Information (SCOPUS)
2. Editor, Cogent Engineering (SCOPUS)
3. Editor, Modern Civil Engineering in Trend of the Sustainable Infrastructure Development, ISBN-13: 978-3-03835-619-6, Periodical: Applied Mechanics and Materials Vol. 802, 2015, 722 pages, Trans Tech Publications, Switzerland. (SCOPUS)
4. Editor, Proceedings of the IGNITE-AICCE'17, International Conference of Global Network for Innovative Technology (IGNITE) and AWAM International Conference in Civil Engineering IGNITE-AICCE'17, 8-10 August 2017, Penang, Malaysia, AIP Conference Series (SCOPUS)
5. Guest Editor, Aziz, H.A., Tajaruddin, H.A., Kamal, N.H.M., Hung, Y.T. (Editors). ICERT 2017: Special Issue on: "Synergizing Environmental Management and Technology" in International Journal of Environmental Engineering, Inderscience Publisher, October 2017-April 2018 (ERA)
6. Jurnal Teknologi-Special Edition (Protection of Drinking Water for Source Abstraction and Treatment)

(SCOPUS)
7. Managing Editor, International Journal of Environment and Waste Management (IJEWM), Inderscience Publishers (SCOPUS).
8. Managing Editor, International Journal of Environmental Engineering(IJEE), Inderscience Publishers (ERA)
9. The Scientific World Journal, Hindawi Publication (SCOPUS).
10. The Scientific World Journal: Environmental Chemistry, Hindawi, (SCOPUS)
c) OTHER JOURNALS
1. Editor-in-chief, Caspian Journal of Applied Sciences Research (CJASR), 1/1/2011- 30/4/2014.
2. Editor-in-chief, International Journal of Scientific Research in Environmental Sciences (IJSRES).
3. Journal of Desalination and Water Purification
4. Member of the Editorial Board, Advances in Water Resource and Protection
5. Member of the Editorial Board, Global Journal of Environmental Science and & Technology
6. Member of the Editorial Board, International Journal of Civil Engineering & Geo-environmental
7. Member of the Editorial Board, International Journal of Engineering (IJE)
8. Member of the Editorial Board, International Journal of Environment and Engineering Science (IJEES)
9. Member of the Editorial Board, International Journal of Innovative Works in Engineering and Technology (JIWET)
10. Member of the Editorial Board, International Journal of Management, Modern Sciences and Technologies (IJMMST)
11. Member of the Editorial Board, International Journal of Research and Reviews in Applied Sciences
12. Member of the Editorial Board, International Journal of Scientific Research in Environmental Sciences
13. Member of the Editorial Board, Iranica Journal of Energy and Environment (IJE)
14. Member of the Editorial Board, Jacobs Journal of Civil Engineering
15. Member of the Editorial Board, Journal of Advanced Civil Engineering Practice and Research
16. Member of the Editorial Board, Journal of Applied Researches for Water and Wastewater (JARWW)
17. Member of the Editorial Board, Journal of Bioremediation & Biodegradation
18. Member of the Editorial Board, Journal of Earth and Environmental Sciences, Gavin Publishers, 2018 to date
19. Member of the Editorial Board, Natural Resources Conservation and Research, EnPress, 2018 to date.
20. Member of the Editorial Board, nternational Journal of Earth Science and Geophysics, Vibgyor Online, 2018 to date.
21. Member of the Editorial Board, The Open Waste Management Journal, Bentham Open, 2018 to date.
(d) Book Editor
1) Aziz, H.A., Abu Amr, S.S. (Editors). Advanced Oxidation Processes (AOPs) in Water and Wastewater Treatment, Publisher: IGI Global, 2017-2018.
2) Advisory Editorial Board Member, Book: Sustainable Water Developments Resources, Management, Treatment, Efficiency and Reuse, CRC Press, Taylor & Francis Group. In Press.
g) Keynote Speaker (Conference /Seminar/Symposium and other similar academic / professional forums)
1) Aziz, H.A. Challenges in waste management practices in developing countries, Keynote paper, ICSTIE 2014, IPharME 2014, ICAPE 2014, ICCESR 2014, 17-18 September 2014, Park Royal Penang Resort, Penang, Malaysia
2) Aziz, H.A. Municipal solid waste and landfilling challenges in developing countries, International Conference on Waste Management and Environment 2013 (ICMWE 2013), Institute of Biological Sciences, University of Malaya, 26-27 August 2013
3) Aziz, H.A. Solid waste disposal and landfilling challenges in developing countries, 2013 International Conference on Industrial Engineering and Management Science (ICIEMS 2013), International Research Association of Information and Computer Sciences, China, Shanghai, 28-29 September 2013
4) Aziz, H.A. Study On The Restoration Of Muassim/Mina Landfill, Makkah, Keynote paper at the International Postgraduate Conference on Marine, Chemical and Biological Sciences, 13-14 January 2015 , Langkawi, Malaysia.
5) Aziz, H.A. Waste management and control technology, Plenary Paper, 3rd International Conference on Environmental Research and Technology (ICERT 2012), School of Industrial Technology, Universiti Sains Malaysia, 2012, International
6) Aziz, H.A., Aziz, S.Q. Cleaner Production Approaches for Sustainable Development, Proceedings, The International Engineering For Sustainability Conferencee (INESCO), 14-15 October, 2011, Engineering Campus, USM, Penang, Plenary paper,, The International Engineering For Sustainability Conferencee (INESCO), 14-15 October, 2011, Engineering Campus, USM, Penang, Plenary paper, 26-37, Universiti Sains Malaysia, 2011
7) Aziz, H.A., Semi-Aerobic Sanitary Landfill: Penang Experience The 1st International Conference on Environmental Crises and its Solutions, Science and Research Branch Islamic, Azad University, Iran Kish Island, Iran, 13-14 February 2013

8)	Aziz, H.A. , Waste Management And Control Technology, Plenary Presentation at the 3rd International Conference on Environmental Research and Technology 2012 (ICERT 2012), 30 May-1 June 2012, Park Royal, Penang, Malaysia
9)	Aziz, H.A. , Municipal Solid Waste Management Challenges In Malaysia, Key paper at the Waste Management Asia, 2016, 27-28 January, 2016, Kuala Lumpur, Fleming Gulf.
10)	Aziz, H.A. Recent development in landfill leachate treatment, Keynote Paper, 5th International Conference on Environmental Research and Technology (ICERT 2017), 23rd-25th August 2017, Jen Hotel, Penang
h) Awards for Innovation	
1.	Adlan, M.N., Aziz, H.A. Innovative Water Filtration System for Remote Areas, Bronze Medal, PECIPTA 2017, Ministry of Higher Education Malaysia (MOHE), 7-9 October 2017, Kuala Terengganu
2.	Adlan, M.N., Aziz, H.A. , Murshed, M.F., Dissolved air floatation pilot plant, Ministry of Science, Technology & Innovation Expo (MOSTI), 2005 (Bronze) (Team member)
3.	Adlan, M.N., Aziz, H.A. , Tan, E. Roughing filter for water supply to orang asli settlement, Ministry of Science, Technology and Environment, Technology & Environment Expo (MOSTE), 2004, Bronze (Team member)
4.	Adlan, M.N., Elvin Tan, Aziz, H.A. Diffused air floatation nozzle, MINDS, International Invention, Innovation, Industrial Design and Technology Exhibition (ITEX), 2005, Gold Medal and Special Award Best Industrial Design (Team member)
5.	Adlan, M.N., Tan, E., Aziz, H.A. Diffused air floatation nozzle, GENEVE, Salon International Des Inventions, Geneva, 2006, (Bronze) (Team member)
6.	Aziz, H.A. Halim, A.A., Johari, M.A.M., Ariffin, K.S., Dr. Adlan, M.N. Novel leachate treatment system, PECIPTA, 2007, (Silver) (Head).
7.	Aziz, H.A. , Top Research Scientists Malaysia, TRSM 2012, Top Research Scientists Malaysia, TRSM 2012, Academy of Sciences Malaysia, 2012 (Head).
8.	Aziz, H.A. , Halim, A.A., Johari, M.A.M., Ariffin, K.S., Adlan, M.N., Yusoff, M.S. Novel Adsorbent for Landfill Leachate Treatment, Malaysian Technology Expo 2008, (MTE 2008), Putra World Trade Centre, Kuala Lumpur, 21-23 February 2008 (Gold) (Head).
9.	Aziz, H.A. , Yusoff, M.S., A.A. Halim, Johari, M.A.M., K.S. Ariffin. Novel adsorbent for landfill leachate treatment. Salon International Des Inventions, GENEVE, Apr-09 (Silver) (Head).
10.	Aziz, H.A. , Yusoff, M.S., Adlan, M.N., Asaari, F.A.H. Removal of Ammonia in Leachate from Landfill, Ministry of Science, Technology & Environment, Technology & Environment Expo (MOSTE), 2004 (Silver) (Head).
11.	Aziz, H.A. , Yusoff, M.S., Adlan, M.N., Asaari, F.A.H. Leachate treatment plant, Malaysian Invention and Design Society (MINDS), 14th International Invention, Innovation, Industrial Design and Technology Exhibition (ITEX), 2004 (Silver) (Head).
12.	Aziz, H.A. , Zakaria, S.N.F. Color Reduction by Ozone treatment in Stabilized Landfill Leachate, Best paper award conferred at the 2nd International Conference Renewable Energy and Environmental Management (ICREEM 2017), May 19-20, Phuket, Thailand, organised by Islamic World Network for Environmental Science and Technology, IPN Education Group.
13.	Izzahan, I., Adnan, N., Adlan, M.N., Aziz, H.A. National Blue Ocean Strategy: Has won the gold medal in the NBOS Competition (civil service category) organised by the Prime Minister Office, 09 December 2016, on project entitled 'Pilot Project: Water for Life Sungai Jernih, Selama, Perak'. The project in collaboration with Selama District Office, Perak.
14.	Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Hamidi Abdul Aziz , Awatif Md Isa, Mohd Hafiz Zawawi, Gold medal, for the invention 'Ag-Climesorbent-novel sorbent for industrial effluent purification, exhibited at "Bangkok International Intellectual Property, Invention, Innovation and Technology Exposition" on the occasion of "Thailand Inventors' Day 2017", 2-6 February, 2017.
15.	Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Hamidi Abdul Aziz , AWatif Md Isa, Mohd Hafiz Zawawi, Special Award from Association of Polish Inventors and Rationalizers, for the invention 'Ag-Climesorbent-novel sorbent for industrial effluent purification, exhibited at "Bangkok International Intellectual Property, Invention, Innovation and Technology Exposition" on the occasion of "Thailand Inventors' Day 2017", 2-6 February, 2017.
16.	Mojiri, A., Ziyang, L., Ahmad, Z., Arshad, M.F., Aziz, H.A. , Silver medal for the innovation 'Landfill leachate treatment with a combined system including electro-ozonation and composite adsorbent augmented sequencing batch reactor process', exhibited at ITEX 2017, Malaysian Invention and Design Society, 11-13 May 2017, Kuala Lumpur.
17.	Yusoff, M.S., Aziz, H.A. Novel landfill leachate treatment by Indion resin, International Exposition of Research and Invention Institution of Higher Learning (PECIPTA 2009), KLCC, Kuala Lumpur, 8-10 Oct 2009 (Silver) (Team member)
18.	Yusoff, M.S., Aziz, H.A. , Bashir, M.J.K. IonEx: Novel process for leachate treatment, Malaysian Association of Research Scientists (MARS), Malaysia Technology Expo 2011, 17-19 February 2011, Kuala Lumpur, 2011, National (Silver) (Team member)

i) Leadership in Professional /Academic Associations
1. Advisor for a Hands.On Training On Industrial Wastewater Analysis, 14-15 December 2016, USM.
2. Advisor, 2 Days Short Course On Anaerobic Digestion: Process, Design And Applications, 23-24 May 2016, SERC, USM, Penang
3. Advisory Board Members, International Unimas Stem Engineering Conference 2016, UNIMAS STEM EnCon2016, 26-28 October, Kuching, Sarawak.
4. Chairman of the Conference Running Committee, Member of the Editorial Board and Member of the Technical Committee of the 'International Conference on Hydrology and Water Resources of Humid Tropics', Ipoh. 24-26 November 1998.
5. Chairman of the Publication Committee, 'Fourth National Conference in Civil Engineering (AWAM 2007)', May 2007, Langkawi.
6. Chairman of the Technical Committee 'International Conference on Land Reclamation and Rehabilitation, LARREN 97', 25-27 August 1997
7. Chairman of the Working Committee, 'Third National Conference in Civil Engineering (AWAM 2004)', 20-22 July 2004, Copthorne Orchid Hotel, Tanjung Bungah
8. Committee Member of The International Forum on Engineering Materials and Manufacturing Technology (IFEMMT 2018), March 23-25, 2018, Wuhan, China.
9. Committee Member, Environment Malaysia Conference (ENVIROMAL'99), Mines Conference Centre, Kuala Lumpur, 13-14 July 1999
10. Conference Secretary 'Third National Conference in Civil Engineering (AWAM 2004)', 20-22 July 2004, Copthorne Orchid Hotel, Tanjung Bungah
11. Coordinator 'Seminar on Developments in Wastewater Treatment Systems', USM Perak Branch, 19 March 1994
12. Coordinator 'Short Course on Practicality of Landfill Design', USM Perak Branch, 4-7 September 1995
13. Coordinator, 'Seminar on Solid Waste Management', USM Perak Branch, 30 September 1993
14. Detailed EIA, EMP and Erosion and Sediment Control Plan review expert panel, appointed by MOSTI for the Development of forest plantation in Gunung Inas forest reserved Mukim Bakai Kupang and Pulau District of Baling, Kedah Darul Aman, by Perbadanan M, 2013, -, National
15. Energy & Environment, Chair, The National Science Fellowship Conference, MOSTI, 2004
16. International Advisory Committee Member for ACEM14, Busan, Korea, 24-29 August 2014, 2013, -, International
17. International Committee Advisory Member, International Conference on Engineering, Environment, Economics, Safety and Health 2009 (CONVEEESH' 09) In Collaboration with Sustainable Architecture and Environment (SENVAR 10th, 2009), Manado, North Sulawesi, Indonesia, October 26-27, 2009.
18. Joint Coordinator 'Short Course on Investigations on Soil and Water Contamination', USM Perak Branch, 10-12 May, 1994
19. Member of the External panel for selection of the best researcher 2013, Universiti Malaysia Sabah, 2013, -, National
20. Member of the International Program Committee (IPC) for the IASTED International Conference on Water Resources Management, WRM 2007, Honolulu, USA from August 20 - 22, 2007, August 20 - 22, 2007.
21. Member of the International Program Committee (IPC) for the IASTED International Conference on Water Resources Management, WRM 2008, IASTED Africa WRM 2008.
22. Member of the International Program Committee (IPC) for the IASTED International Conference on Water Resources Management, WRM 2009, IASTED Africa WRM 2008, Sept 8-10, Botswana.
23. Member of the International Program Committee (IPC) for the IASTED International Conference on Water Resources Management, WRM 2009, IASTED Africa WRM 2010, September 6-9, Botswana
24. Member of the International Program Committee (IPC) for the IASTED International Conference on Water Resources Management, WRM 2009, IASTED Africa WRM 2012, September 3-5, Botswana
25. Member of the Organising Committee, ICES 2016: International Conference on Environmental Sciences, Dubai, UAE, 10-11 August 2016.
26. Member of the Organising committee, Short Course on Operation and Management of Sanitary Landfill, in Collaboration with SWCorp Kelantan, DK4, USM Health Campus, Kelantan, 25-26 April 2016
27. Member of the Organising Committee, Water Security Conference, SERC, USM, Penang, 10-11 May 2016
28. Member of the Panel of Promotion Exercise for Professor VK7, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia, 17 December 2013, 2013, -, National
29. Member of the Scientific Committee, 1st. International Congress-Civil Engineering and durable development, Faculty of Science and Technology, University of Tebessa, Algeria, 17-19 October 2011, 2011, -, International
30. Member of the Technical Committee, 2014 Flood research Conference, UTM and MOHE, Kuala Lumpur, 4-6 April 2016
31. Member, GEOMATE 2015 Technical Program Committee (TPC), Osaka, 16-18 November 2015.
32. Member, GEOMATE 2016 Technical Program Committee (TPC), Bangkok, 2016.
33. Municipality Development. Chair, The National Seminar, 1999
34. Organising Committee Member for the 'joint IEM/ICE conference on Solid and Hazardous Waste

Management', Kuala Lumpur, 19-21 September 1994
35. Organising Committee Member, 'Enviro Malaysia '99 Conference', organised by Environmental Research Association of Malaysia, ENSEARCH, 13-14 July 1999.
36. Organising Committee Member, 'Pollution in the Metropolitan Environment Conference, World Conference, POLMET 2000', organised by Environmental Research Association of Malaysia, ENSEARCH, 19-23 March, 2000
37. Organising Committee Member, 'The 5 th . Asian Symposium on Academic Activities For Waste Management (AAAWM), Kuala Lumpur, 9-12 September, 2002., organised by AAAAWM and others, 19-23 March, 2000
38. Organising Secretary 'International Conference on Land Reclamation and Rehabilitation, LARREN 97', 25-27 August 1997
39. Program Committee (PC) of ACSTM 2019, the 3rd Asian Conference on Science, Technology & Medicine, February 12-14, 2019, Dubai, UAE.
40. Scientific Committee Member, The International Conference on Engineering and Built Environment (ICEBE) 2013, UKM, 2013, -, International
41. Session Chairman (Energy & Environment) of the Annual Seminar of National Science Fellowship 2004, Ministry of Science, Technology & Innovation Malaysia, Vistana, Penang, 20-21 Disember 2004
42. Session Chairman during the 'International Conference on Land Reclamation and Rehabilitation, LARREN 97', 25-27 August 1997
43. Technical 4 Session Chairman, 'Third National Conference in Civil Engineering (AWAM 2004)', 20-22 July 2004, Cophorne Orchid Hotel, Tanjung Bungah
44. The 5th IASTED African Conference on Environment and Water Resource Management AfricaEWRM 2014~September 1 – 3, 2014, Gaborone, Botswana
j) Continuous education
1. Aziz, H.A. (1994) 'Leachate', lecture delivered at the Short Course on Investigations on Soil and Water Contamination', Universiti Sains Malaysia (Perak Branch), 10-12 May.
2. Aziz, H.A. (1995) 'Site selection and design', paper presented at the Short Course on Practicality of Landfill Design, Universiti Sains Malaysia (Perak Branch), 4-7 September
3. Aziz, H.A. (1997), 'Biological Treatment of Industrial Wastewater', paper presented at the Short Course on 'Industrial Wastewater Management', School of Chemical Engineering, USM Perak, 16-17 Disember.
4. Aziz, H.A. (1997), 'Environmental Legislation in Civil Engineering', paper presented at the Seminar on Construction Site Safety organised by Ungku Omar Politechnic, Ipoh, (In Malay), Jublee Intan Hall, 5 April.
5. Aziz, H.A. (1997), 'Environmental Specification in Civil Engineering', paper presented at the Short Course on 'Understanding Civil Engineering Specifications', School of Civil Engineering, Universiti Sains Malaysia (Perak Branch), (In Malay), 3-5 February.
6. Aziz, H.A. (1997), 'Personal Protective Equipment (For Safety)', paper presented at the Short Course on Construction Site Safety, The Technological Association of Malaysia, 12-13 July, USM Perak Branch.
7. Aziz, H.A. (1997), 'Safe machine Operation', paper presented at the Short Course on Construction Site Safety, The Technological Association of Malaysia, 12-13 July, USM Perak Branch.
8. Aziz, H.A. (1997), 'Sludge Handling and Disposal, paper presented at the Short Course on 'Industrial Wastewater Management', School of Chemical Engineering, USM Perak, 16-17 Disember.
9. Aziz, H.A. (2001), 'Sludge Management and Disposal', Short Course for TORAY Plastics, P.Pinang, 27-28 Disember 2001.
10. Aziz, H.A. (2005), 'Biological proses-aerobic', Short Course on Wastewater Treatment, 13-15 September, School of Civil Engineering, Engineering Campus, University of Science Malaysia, Penang.
11. Aziz, H.A. (2005), 'Sludge handling and disposal', Short Course on Wastewater Treatment, 13-15 September, School of Civil Engineering, Engineering Campus, University of Science Malaysia, Penang.
12. Aziz, H.A. (2006), 'Biological proses-aerobic', Short Course on Wastewater Treatment, July, School of Civil Engineering, Engineering Campus, University of Science Malaysia, Penang.
13. Aziz, H.A. (2006), 'Sludge handling and disposal', Short Course on Wastewater Treatment, July, School of Civil Engineering, Engineering Campus, University of Science Malaysia, Penang.
14. Aziz, H.A. Anaerobic Digestion of Municipal Solid Waste, paper presented at the 2 Days Short Course On Anaerobic Digestion: Process, Design And Applications, 23-24 May 2016, SERC, USM, Penang
15. Aziz, H.A. Safe Closure And Rehabilitation Of Landfill, paper presented at the Short Course on Operation and Management of Sanitary Landfill, in Collaboration with SWCorp Kelantan, DK4, USM Health Campus, Kelantan, 25-26 April 2016
16. Aziz, H.A. Sanitary Landfill Design & Construction, paper presented at the Short Course on Operation and Management of Sanitary Landfill, in Collaboration with SWCorp Kelantan, DK4, USM Health Campus, Kelantan, 25-26 April 2016.
17. Wallace, K.B. and Hamidi A Aziz (1994) 'Regulations of contaminated sites: Malaysia and overseas'.lecture delivered at the Short Course on Investigations on Soil and Water Contamination', Universiti Sains Malaysia (Perak Branch), 10-12 May.

4.0 CONSULTANCY
a) Consultancy With Monetary Rewards to University / School / Individual
1. Construction of horizontal roughing filter at Kg. Sg. Pelantuk, Sg. Siput (U) Perak, IM4U Grant, RM10,000, April-September 2017.
2. Construction of water filter for Kampung Pelantuk, Sg. Siput Perak, University Community Transformation Centre Grant (UCTC) 1/2017, NBOS Unit, Ministry of Higher Education (MOHE), RM15,000
3. Design and Consultancy Work for an alternative water supply for Orang Asli settlement at Sg. Jang Kuala Kubu Baharu Selangor, Jabatan Kesihatan Selangor, RM4,500.00, 1/4/2002- 1/4/2002
4. Determination of water quality for a road project between Gunung Bongso through Kg. Batu ke Kg. Lobak, Puncak Utara Sdn. Bhd, RM26,000.00, 1/1/2009- 1/1/2010
5. Development of civil engineering laboratory at University of Technology Petronas, University of Technology Petronas, RM132,000.00, 1/1/1999- 1/3/1999
6. Development of civil engineering laboratory facilities and University of Technology Petronas, Package 1 (Testing and Commissioning), Universiti Teknologi Petronas, RM300,000.00, 1/1/2000- 1/1/2001
7. Development of environmental engineering syllabus for UNIMAP, to Ministry of Education, RM2,000.00, 2004.
8. Development of environmental engineering syllabus, UNIMAP,, RM15,400.00, 2004.
9. Development of Post-EIA-Environmental Management Plan (EMP) for Universiti Teknologi Petronas Seri Iskandar, Universiti Teknologi Petronas, RM300,000.00, 1/8/1999- 1/7/2001
10. EIA Report for USM Perak Branch Campus, Transkerian, Seberang Perai Selatan, Penang, USM/Ikatan Cipta Bina Sdn. Bhd, RM55,000.00, 1/12/1997- 1/3/1998
11. Independent Evaluation consultant for "Request For Proposal (RFP) Safe Rehabilitation, Development Of Jelutong Dumpsite And Proposed New Disposal Site For Construction And Marine Clay, for Penang Development Corporation, July-December 2016, RM10,000
12. Industrial testing, AE Abdullah Enterprise, RM250.00, 29/9/1994- 29/9/1994
13. Industrial testing, Anjung Emas Sdn. Bhd, RM1,000.00, 22/4/1994- 22/4/1994
14. Industrial testing, Concrete Mix Sdn. Bhd., RM575.00.
15. Industrial testing, Contractor, RM2,000.00.
16. Industrial testing, Forest Research Institute of Malaysia, RM4,000.00.
17. Industrial testing, IPCO Contractor Sdn. Bhd, RM22,500.00, 1/3/1994- 29/6/1995
18. Industrial testing, Mineral Water Co. Sdn. Bhd, RM500.00, 22/8/1994- 22/8/1994
19. Industrial testing, Murata Electronics (M) Sdn. Bhd, RM950.00, 18/10/1996- 18/10/1996
20. Industrial testing, Pembinaan Awam Manjung, RM240.00.
21. Industrial testing, Permata Services Sdn. Bhd, RM755.00.
22. Industrial testing, Politeknik Ungku Omar, RM1,000.00, 13/4/1994- 13/4/1994
23. Industrial testing, Readymixed Concrete Malaysia, RM1,000.00, 18/4/1996- 18/4/1996
24. Industrial testing, Rubberthread Industries (M) Sdn. Bhd, RM1,300.00, 7/11/1996- 7/11/1996
25. Industrial testing, SES Consultant Sdn. Bhd, RM1,000.00, 21/9/1993- 21/9/1993
26. Investigation for greenhouse gas reduction project using semi-aerobic landfill system in Malaysia: phase 2, Tokyu Construction Co. Ltd., Japan, Tokyo, RM10,000.00, 2010.
27. Leachate treatment consultancy work at Langkawi Island Phase II, Khairi Consult Sdn. Bhd., RM40,000.00, 2009.
28. Leachate treatment consultancy work at Langkawi Island, Khairi Consult Sdn. Bhd., RM10,000.00, 2008.
29. Leachate treatment consultancy work at Pulau Burong Landfill Site, Penang, Idaman Bersih Sdn. Bhd., RM30,445.00, 1/3/2001- 1/11/2001
30. Market survey study for the proposed R&D Laboratory (be equipped with Environmental Engineering Laboratory) of the TNB Berhad, TNB Berhad., RM200,000.00, 1/1/1994- 1/7/1994
31. Post EIA monitoring of marine water quality at Kuala Kedah Marina Project, for BF Indra Sdn. Bhd., RM6,900.00, 1/3/2002- 1/3/2002
32. Preliminary investigation for greenhouse gas reduction project using semi-aerobic landfill system in Malaysia, Tokyu Construction Co. Ltd., Japan, Tokyo, RM24,000.00, 2008.
33. Preparation of a technical proposal for The Feasibility Study Of Sewage Effluent Reuse for Jelutong Sewage Treatment Plant, CS Engineering Consultancy, RM1,700.00, 1/12/2009- 1/12/2009
34. Preparation of Management Plan for Integrated River Basin Management for Sungai Perai, Penang/Kedah, RM1.5 million, January-October 2018
35. Proposal of recycling of waste, Introvision Sdn. Bhd, RM4,000.00, 2004.
36. Proposal to protect Kilim mangrove from leachate pollution, Langkawi Municipal, Kedah, RM47,500.00, 1/10/2007- 31/3/2010
37. Raw sewage characterisation, Indah Water Konsortium, RM2,600.00, 2002.
38. Research on groundwater potential at Kg. Sg. Cawang, Hilir Perak District, Teluk Intan, Perak, RM40,000
39. Sludge analysis and consultancy, Malacca State Government, RM3,000.00, 2004
40. Study on the domestic water use in the state of Perak for Perak Water Board, Perak Water Board, RM19,435.00, 1/3/1999- 1/7/1999

41. Study on the quality of oxidation pond discharge from USM campus, HLA Associates Sdn. Bhd., RM950.00, 1/6/2002- 1/6/2002
42. Study to predict the lifespan of water extracted and discharged to the ex-mining pond for marble processing industry in Simpang Pulai Ipoh, Perak SEDC, RM6,000.00, 1/8/1994- 1/11/1994
43. Technical Proposal-Closure Design & Post-Closure Plan for Deir Al Balah Sanitary Landfill RFP No.: 4.1.5.3-(GZ-MDLF-16393-CS-QCBS), Grant No.: P121648 / AFD CPS 1040 (has been invited to the stage of RFP). Submitted and waiting for result, Municipal Development & Lending Fund, Gaza, In collaboration with AKN Consultang, Gaza, April 2018
44. The Feasibility Study of Sewage Effluent Reuse for Jelutong Sewage Treatment Plant (JSTP) and Bayan Baru Sewage Treatment Plant (BBSTP), 22 March-21 July 2010), CS Engineering Consultancy, 11A, Tkt 1, Lrg Perda Utama 6, 14000 Bukit Mertajam, Pulau Pinang, RM85,000
45. The Feasibility Study of Sewage Effluent Reuse for Jelutong STP and Bayan Baru STP , CS Engineering Consultancy , RM1,700.00, 1/4/2010-15/4/2010
46. Training on wastewater treatment, Toray Plastics Penang, RM6,000.00, 1/11/2001- 1/11/2001
47. Treatability study and consultancy report for the design of the proposed treatment works for the new slaughterhouse wastewaters in Central Market, Ipoh, Majlis Bandaraya Ipoh, RM7,850.00, 1/1/1993- 1/8/1993
48. University-Community Engagement Project: Construction of horizontal water filter for community at Kampung Sg. Pelantuk, Sg. Siput (U) Perak, 14 August-13 September 2017. Sponsors: University Community Transformation Centre (UCTC), Ministry of Higher Education Malaysia (MOHE); Malaysia, Division on Industry & Community Network, USM; Department of Orang Asli Development Malaysia (JAKOA) (RM50,000).
49. Upgrading of sanitary landfill for Pulau Langkawi for MPL-Phase 2, MPL, RM50,000.00, 2009.
50. Water quality monitoring for the proposed Fire Brigade Acedemy, Seri Iskandar, Perak. Client: Mastac Engineering Sdn. Bhd., RM50,000, June 2012- January 2014 (Team member)
51. Water supply for orang asli settlement in Sg. Jang, Kuala Kubu Baharu Phase II, Selangor Health Department, RM10,000.00, 2000.
52. Water supply for under priviledge community, Division of Community & Industrial Network, USM, RM38,465.00, Kg. Langkor, Assoc. Prof. Ir. Dr. Mohd. Nordin Adaln (Team member), 2012
53. Water supply for under priviledge community, Division of Community & Industrial Network, USM, RM18,465.00, Kg. Langkor, Assoc. Prof. Ir. Dr. Mohd. Nordin Adaln, 2011.
b) Consultation Without Monetary Rewards
1. Committee Member for the accreditation of certificate for sewage treatment plant operators, Sewage Services Department, Ministry of Housing & Local Government, RM0.00, 1/1/1995- 1/12/2011
2. Committee Member for upgrading works of Bercham landfill site, MBI, RM0.00, 1/1/2000- 1/12/2001
3. Consultation works prior to the signing of the Memorandum of Understanding between USM, Majlis Perbandaran Seberang Perai and Idaman Bersih Sdn. Bhd For research collaboration., RM0.00, 27/6/2002- 27/6/2002
4. Innovative automatic backwashed filtration system from a retention pond water in remote area, Baling, Kedah, April 2018
5. Member of the expert panel for designing leachate treatment facilities at Pulau Burung Landfill Site, Penang, Pulau Burung Landfill Site, Penang, RM0.00, 1/1/2001- 1/12/2002
6. Technical advice to Seberang Perai Municipal to use limestone filter for treating leachate at Ampang Jajar site, RM0.00, 2001
5.0 SERVICE TO THE UNIVERSITY AND COMMUNITY
a) Administration
1. Academic Editors, School Of Civil Engineering (Perak Branch Campus), 1/11/1993- 31/3/1994
2. Academic Editors, School Of Civil Engineering (Perak Branch Campus), 1/4/1994- 31/12/1994
3. Programme Chairman, School Of Civil Engineering (Perak Branch Campus), 1/1/1995- 12/31/1996
4. Programme Chairman, School Of Civil Engineering (Perak Branch Campus), 1/1/1997- 4/15/1998
5. Programme Chairman, School Of Civil Engineering (Perak Branch Campus), 27/7/1998- 29/8/1998
6. Deputy Dean, School Of Civil Engineering, 26/3/2003- 25/3/2005
7. Deputy Dean, School Of Civil Engineering, 26/3/2007- 30/6/2008
8. Dean, School Of Civil Engineering, 1/7/2008- 14/3/2009
9. Dean, School Of Civil Engineering, 15/3/2009- 31/12/2009
10. Dean, School Of Civil Engineering, 1/1/2010- 12/31/2012
b) Service to the Community
1. Advisor, Surau, Taman Jawi Jaya, 2004 to date.
2. An overview of landfill leachate and leachate treatment, Invited paper, International workshop, Faculty of Civil Engineering, Fukuoka University, 2013, International
3. Aziz, H.A. (2006), 'Solid waste management in Penang', interviewed by TV3 and aired on Buletin 1.30 pm, 19 April 2006, 19 April 2006.

4.	Aziz, H.A. (2006), 'View on incinerator in Malaysia', interviewed by TV3 and aired on Buletin Utama 8.30 pm, 20 May 2006, 20 May 2006.
5.	Aziz, H.A. (2011), 'ZELIAC', interviewed by TV2 Panorama programme on 2 June 2011.
6.	Chairman of the working group for the Open Day,, SK Jawi, Seberang Perai Selatan, 26 October 2002.
7.	Committe member ,Surau, Taman Jawi Jaya,1/1/2004- 31/12/2011,
8.	Committe member for Science and Environment week at the Radio 3 Ipoh, RTM, 1998.
9.	Committee member ,Parents-Teacher Association, SK Jawi, Seberang Perai Selatan,1/1/2002- 31/12/2003,
10.	Committee Member for upgrading works of Bercham landfill site, MBI, RM0.00, 1/1/2000- 1/12/2001
11.	Committee member of the Parents'-Teacher Association, SK Jawi, Seberang Perai Selatan, 2002.
12.	Committee member of the Parents'-Teacher Association, SK Jawi, Seberang Perai Selatan, 2003.
13.	How to produce a quality publication, Invited paper, IPASA Workshop, Faculty of Civil Engineering, Universiti of Teknologi Malaysia, 2013, National
14.	In-house training:Improving basic softwares for administration and technical staffs, talk to staffs, School of Civil Engineering, USM, 23 March 2017
15.	In-house training:Thesis preparation, talk to postgraduate students, School of Civil Engineering, USM, 20 March 2017
16.	In-house training:Transformation of research into a quality publication, talk to postgraduate students, School of Civil Engineering, USM, 12 March 2017
17.	Interviewed by TV3 ,Solid waste management in Penang,19/4/2006- 19/4/2006.
18.	Interviewed by TV3 ,Solid waste management in Penang,19/4/2006- 19/4/2006,
19.	Interviewed by TV3 ,View on incinerator in Malaysia,20/5/2006- 21/5/2006.
20.	Interviewed by TV3 ,View on incinerator in Malaysia,20/5/2006- 21/5/2006,
21.	Invited paper ,Integrated solid waste management in developing countries: towards achieving a sustainable devlp.,21/4/2008- 23/4/2008.
22.	Invited paper ,Integrated solid waste management in developing countries: towards achieving a sustainable devlp.,21/4/2008- 23/4/2008,
23.	Invited paper entitled 'Integrated solid waste management in developing countries: towards achieving a sustainable development, Jeddah Environmental Forum, Jeddah, JCCI, 2008, International
24.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: EIA and EMP,23/7/2007- 23/7/2007.
25.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Pollution and solid waste problem,11/3/1994- 11/3/1994,
26.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Water pollution,17/4/1994- 17/4/1994,
27.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: What is Science & Technology (Quiz),23/8/1994- 23/8/1994,
28.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Sewage,5/7/1995- 5/7/1995,
29.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Water and Pollution problem (Sci. & Tech. quiz),5/9/1996- 5/9/1996,
30.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Environmental Management System (EMS/ISO14000),26/7/1998- 26/7/1998,
31.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: EIA and EMP,23/7/2007- 23/7/2007,
32.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Pollution and solid waste problem,11/3/1994- 11/3/1994,
33.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Water pollution,17/4/1994- 17/4/1994,
34.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: What is Science & Technology (Quiz),23/8/1994- 23/8/1994,
35.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Sewage,5/7/1995- 5/7/1995,
36.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Water and Pollution problem (Sci. & Tech. quiz),5/9/1996- 5/9/1996,
37.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Environmental Management System (EMS/ISO14000),26/7/1998- 26/7/1998,
38.	Invited speaker ,Technical talk live on air at Radio Malaysia Perak: EIA and EMP,23/7/2007- 23/7/2007,
39.	Invited speaker to the technical talk live on air at Radio Malaysia Perak: Pollution and solid waste problem, 11/3/94 (8.00-9.00 am).
40.	Invited speaker to the technical talk live on air at Radio Malaysia Perak: Water pollution, 17/4/94 (800-9.00 am).
41.	Invited speaker to the technical talk live on air at Radio Malaysia Perak: What is Science & Technology (Science & Technology Quiz), 23/8/94 (5.10-6.00 pm).
42.	Invited speaker to the technical talk live on air at Radio Malaysia Perak: Sewage, 5/7/95 (5.10-6.00 pm).
43.	Invited speaker to the technical talk live on air at Radio Malaysia Perak: Water and Pollution problem (Science & Technology Quiz), 5/9/96 (5.10-6.00 pm).
44.	Invited speaker to the technical talk live on air at Radio Malaysia Perak: Environmental Management System (EMS/ISO14000), 26/7/98 (9.30-10.00 pm).
45.	Invited speaker to the technical talk live on air at Radio Malaysia Perak: EIA and EMP, 23/7/00 (1500-1530 pm).
46.	Invited to become a Member of the Technical Advisory Team, Solid Waste Management, Kedah State, 14

January, 2010
47. Landfill leachate and treatment, Invited paper, 2nd ISWA Summer School 2013, Institute of Biological Sciences, University of Malaya, 2013, International
48. Member of the Human Resources Committee, Engineering Campus, Universiti Sains Malaysia, 2017 to date
49. Member of the promotion committee for academic staff, Universiti Sains Malaysia, 01/05/17-31/12/17.
50. Panelist ,Panelist in Talk Show Programme "GLOBAL TV2, Radio & Television Malaysia,24/8/1997-24/8/1997,
51. Panelist in Talk Show Programme 'GLOBAL TV2', Radio & Television Malaysia discussing environmental aspects within the topic on Land Reclamation and Rehabilitation, 24/8/97, 8.30-9.30 pm.
52. Paper entitled 'Green Technology' Green Technology Programme, PUO, Politeknik Ungku Omar, Ipoh, Perak, 2011, National
53. Representing USM ,Development of MABBIM Civil Engineering Glossary, Dewan Bahasa & Pustaka Malaysia, Ministry of Edc.,1/1/1998- 1/1/1998,
54. Representing USM ,Development of National Environmental Glossary, Dewan Bahasa & Pustaka Malaysia, Ministry of Edc.,1/1/1993- 31/12/1994,
55. Representing USM ,Development of Specifications for contaminated land, Dewan Bahasa & Pustaka Malaysia, Ministry of Ed,1/1/2007- 31/12/2011.
56. Representing USM ,Development of Specifications for contaminated land, Dewan Bahasa & Pustaka Malaysia, Ministry of Ed,1/1/2007- 31/12/2011,
57. Representing USM for the development of MABBIM Civil Engineering Glossary, Dewan Bahasa & Pustaka Malaysia, Ministry of Education, 1998 to date.
58. Representing USM for the development of National Environmental Glossary, Dewan Bahasa & Pustaka Malaysia, Ministry of Education, 1993-1994.
59. Representing USM for the development of Specifications for contaminated land, Dewan Bahasa & Pustaka Malaysia, Ministry of Education, 2007 to date.
60. Semi-aerobic landfill, Invited paper, 2nd ISWA Summer School 2013, Institute of Biological Sciences, University of Malaya, 2013, International
61. Speaker, Quality Publication Workshop, School of Environmental Engineering, Universiti Malaysia Perlis (Unimap), 20 March 2012, Universiti Malaysia Perlis (Unimap), 2012, National
62. University-Community Engagement Project: Construction of dam and horizontal water filter for community at Kampung Sungai Simpul,Ijok, Selama (Water For Life) in collaboration with Selama District Office, Perak, August-October 2016
63. University-Community Engagement Project: Construction of tubewell for drinking water supply for community at Kampung Ketior, Kuala Kangsar, Perak Darul Ridzuan, June 2016.
64. Waste management and landfilling challenges in developing countries, Invited paper, International workshop, Faculty of Engineering, Fukuoka University, 2013, International

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