

CURRICULUM VITAE



Assoc. Prof. Dr. Syazwani Idrus

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Education

1. Ph.D (Environmental Eng. – Waste Treatment) University of Southampton, United Kingdom - 2013
2. MSc. (Civil Eng.). (Environmental Eng.) Universiti Teknologi Mara, Malaysia - 2007
3. BEng. Hons (Civil Eng.) Universiti Teknologi Mara, Malaysia - 2005

Areas of Interest

1. Environmental Engineering - Waste Treatment Technology (Food waste, livestock wastewater and slaughterhouse wastewater)
2. Biochemical Engineering - Anaerobic conversion of biomass for biogas production
3. Bio reactor design - Upflow Anaerobic Sludge Blanket, Continuous Stirred Tank Reactor and Anaerobic Filter.
4. Water and wastewater Treatment Design
5. Groundwater Treatment Technology

Professional Qualification/ Membership/ Affiliation

1. Member, Board of Engineers, Malaysia – BEM
2. International Water Association - IWA

Appointments

Position	Duration
1. Associate Professor, Department of Civil Engineering, UPM	Oct 2019 – to date
2. Senior Lecture, Department of Civil Engineering, UPM	July 2013 - Sept 2019
3. Head of Linkages, Alumni and Mobility Unit, Faculty of Engineering, UPM	June 2017 – May 2020
4. Mobility Coordinator and Summer Programme Coordinator, Faculty of Engineering, UPM - Appointed by Deputy of Vice Chancellor (Academic and International), UPM	Jan 2018 – May 2020
5. Evaluation Committee Member, “Tabung Amanah Jaringan Industri dan Masyarakat (JINM) Faculty of Engineering, UPM”	June 2017 – May 2020
6. Project Leader, Food Waste Characterization for Biogas Anaerobic Digestion Process, TNBR Sdn Bhd	Oct 2018 – June 2019
7. Project Leader, Chemical and Biochemical Analysis of Anaerobic Digestion Process Using Food Waste as Feedstock, TNBR Sdn Bhd	Aug 2019 – Sept 2020
8. Head, Protocol Unit, Global Civil Engineering Conference 2017 (Officiated by Minister of Works)	2017
9. Programme Director, Alumni Dinner Civil Engineering Department, 2016, “The Establishment of 30 Years of Department.”	2015 – 2016
10. Project Leader, ‘Projek Amal Pembinaan 2 Unit Rumah Orang Asli, Kampung Kachau Luar, Semenyih’, NBOS Grant, Ministry of Higher Education	2015 – 2016
11. Head, Public Health Laboratory	2014 – to date



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| 12. Students Affairs' and Alumni Coordinator | Dec 2013 -May 2017 |
| 13. Tutor, Department of Civil Engineering, UPM | 2014 – 2017 |
| 14. Civil Engineer (Ministry of Works, Malaysia) | 2007 |

Related Appointments		
Position		Year
1. Facilitator: Technology and Innovation cluster	National Sewerage Policy Study Workshop organized by Ministry of Water, Land and Natural Resources	2020
2. External Examiner	Effect of steam explosion pre-treatment and feed ratio on methane yields during anaerobic co-digestion of sugarcane bagasse or sugarcane trash with chicken manure (Griffith University, Australia)	2020
3. Internal Examiner	An Experimental Study on the Effectiveness of a Narrow Crested Submerged Breakwater Under Varying Wave Conditions (UPM)	2020
4. External Examiner	Experimental and Analytical investigation of Ferrocement Panel under impact loading (Savitribai Phule Pune University, India)	2020
5. Invited Speaker	Livestock Wastewater Treatment – Department of Veterinary Services ,Perak and UCTC UPM	2019
6. Invited Speaker	Livestock Wastewater Treatment – Department of Veterinary Services ,Pulau Pinang and UCTC UPM	2019
7. Keynote speaker	International Forum on wastewater treatment and Management: Textile wastewater Treatment, Universitas Brawijaya, Indonesia	2019
8. Guest Lecture	International Guest Lecture, Food waste as source of biogas Production, Universitas Brawijaya, Indonesia	2019
9. Expert	Modern Pig Farming (Waste Treatment) - Department of Veterinary Services, Melaka and UCTC UPM	2019
10. Advisor	Operation of Sanitary landfill and Landfill Design - National Audit Department, Malaysia	2019
11. Guest Lecture	Waste Treatment Technology – Inbound Mobility Programme from Kunming University of Science and Technology	2019
12. Interview Panel (Master/ PhD Scholarship)	Ministry of Education, Malaysia	2019
13. Invited Speaker	Fundamental of Anaerobic Digestion, Tenaga Nasional Berhad (TNB Research Sdn Bhd)	2018
14. Escorting Officer	Mobility Programme to Universiti Teknologi Brunei	2018
15. Escorting Officer	Mobility programme to Kunming University of Science and Technology, China	2018
16. University/Committee member	Crisis Management Plan Workshop (International Student Affairs), Putra International Centre, UPM	2018
17. Committee member	Researcher Links Workshop: Innovative Designs of Sustainable Agro-Hydro Health Systems	2017
18. Scientific committee	International Symposium of water and wastewater management, Malatya, Turkey	2017
19. Technical Committee	ICBAE 2017 – 3 rd International Conference on Biotechnology and Agriculture Engineering, Osaka Japan	2017
20. Co Advisor Final Year Project	Waste Detain and Oil Trap - Politeknik Sabak Bernam, Selangor	2015
21. Technical Committee Member	PAWEES-INWEPF Joint Conference 2015 and Editor Journal Technology Special Issue	2015

Cited Journals

1. Mohammed Ali Musa, **Syazwani Idrus***, Effect of Hydraulic Retention Time on the Treatment of Real Cattle Slaughterhouse Wastewater and Biogas Production from HUASB reactor, *Water* Vol 12 (2), 2020. **Q2**
2. Mohammed Ali Musa, **Syazwani Idrus***, Mohd Razif Harun Tuan Farhana Tuan Mohd Marzuki and Abdul Malek Abdul Wahab, A Comparative Study of Biogas Production from Cattle Slaughterhouse Wastewater Using Conventional and Modified Upflow Anaerobic Sludge Blanket (UASB) Reactors, *International Journal of Environmental Research and Public Health*, Vol 17(10), 2019. **Q2**
3. MA Musa, **S Idrus***, H Che Man, N Daud, N Norsyahariati, Performance Comparison of Conventional and Modified Upflow Anaerobic Sludge Blanket (UASB) Reactors Treating High-Strength Cattle Slaughterhouse Wastewater, *Water* Vol 11(4), p806, 2019. **Q2**
4. Mohammed Ali Musa, **Idrus Syazwani***, Hasfalina Che Man , Nik Norsyahariati Nik Daud, Effect of Organic Loading Rate on Anaerobic Digestion Performance of Mesophilic Upflow Anaerobic Sludge Blanket Reactor (UASB) using Cattle Slaughterhouse Wastewater as Substrate, *International Journal of Environmental Research and Public Health*, Vol 15(10), 2018. **Q2**
5. Mohammed Ali Musa, **Syazwani Idrus***, Hasfalina Che Man, Nik Norsyahariati Nik Daud, Wastewater Treatment and Biogas Recovery using Anaerobic, Membrane bioreactors (AnMBR) – Review Paper: Strategies and Achievements, *Journal of Energies (Special Issue: Biofuel and Bioenergy Technology)*, Vol 11(7), 2018 **Q2**
6. **Syazwani Idrus**, Sim Jian Zhe, Nurul Shafiqah Rosli and Nik Norsyahariati Nik Daud, Co-Digestion of Rice Straw Leachate and Domestic Waste Water for Biogas Production with Addition of Urea as Nitrogen Source, *International Journal of Engineering and Technology* Vol 10(1) p 76 – 81, 2018
7. **S. Idrus**, A. Ahsan and Nik Daud, N., Anaerobic Digestion of Domestic Wastewater in different Salinity Levels: The Adaptation Process, *Pertanika: Journal Of Science & Technology*, Vol. 25(1), 2017
8. SC Anijiofor, NNN Daud, **S Idrus**, HC Man, Recycling of fishpond wastewater by adsorption of pollutants using aged refuse as an alternative low-cost adsorbent, *Sustainable Environment Research*, Vol 28(6), 315 – 321, 2018
9. AO Al-Sulttani, A Ahsan, AN Hanoon, A Rahman, NNN Daud, **S Idrus**, Hourly yield prediction of a double-slope solar still hybrid with rubber scrapers in low-latitude areas based on the particle swarm optimization technique, *Journal of Applied Energy*, Vol. 203 p. 280 – 303, 2017 **Q1**
10. Iqbal K Erabee, Amimul Ahsan, Bipin Jose, T Arunkumar, R Sathyamurthy, **Syazwani Idrus**, NN Nik Daud, Effects of electric potential, NaCl, pH and distance between electrodes on efficiency of electrolysis in landfill leachate treatment, *Journal of Environmental Science and Health, Part A*, p. 1 – 7, 2017
11. IK Erabee, A Ahsan, NNN Daud, **S Idrus**, S Shams, Manufacture of Low-cost Activated Carbon Using Sago Palm Bark and Date Pits by Physiochemical Activation, *BioResources* Vol 12(1), 1916 – 1923, 2017 **Q2**
12. Ali Omran Al-Sulttani, Amimul Ahsan, Aatur Rahman, NN Nik Daud, **S Idrus**, Heat transfer coefficients and yield analysis of a double-slope solar still hybrid with rubber scrapers: An experimental and theoretical study, *Desalination* Vol 407, 61 – 74, 2017 **Q1**
13. Iqbal Khalaf Erabee, Amimul Ahsan, Abid Wahid Zularisam, **Syazwani Idrus**, Nik Norsyahariati Nik Daud, Thirugnanasambantham Arunkumar, Ravishankar Sathyamurthy, Aiman Eid Al-Rawajfeh, A New Activated Carbon Prepared from Sago Palm Bark through Physiochemical Activated Process with Zinc Chloride, *Engineering Journal*, Vol 21(5), p. 1 – 14, 2017
14. IK Erabee, A Ahsan, B Jose, MMA Aziz, AWM Ng, **S Idrus**, NNN Daud, Adsorptive treatment of landfill leachate using activated carbon modified with three different methods, *Korean Society Civil Engineer Journal of Civil Engineering* Vol 22(4) p1 – 13, 2017
15. Nik Norsyahariati Nik Daud, Nursheela Abu Mansor, Amimul Ahsan, **Syazwani Idrus**, Leachate Treatment Using Aged Refuse as Biofilter Medium, *Pol. Journal of Environmental Study* Vol. 24(2), p 605 – 609, 2015
16. A. Ahsan, M. Alamgir, M. Imteaz S. Shams, M.K. Rowshon, M.G. Aziz, **S. Idrus**, Municipal Solid Waste Generation, Composition and Management: Issues and Challenges - A Case Study, *Environment Protection Engineering* Vol 41(3) p 43 – 59, 2015
17. Amimul Ahsan, Maskedah Kamaludin, M. M. Rahman, A. H. M. F. Anwar, M. A. Bek, **S. Idrus**, Removal of Various Pollutants from Leachate Using a Low-Cost Technique: Integration of Electrolysis with Activated Carbon Contactor, *Water, Air, & Soil Pollution* Vol 225(2163) p 1 – 9, 2014

18. **Idrus, S.**, Banks, C., & Heaven, S., Assessment of the potential for biogas production from wheat straw washwater in upflow anaerobic sludge blanket digesters, *Water Science and technology: A Journal of the International Association on Water Pollution Research* Vol 66(12) p 2737 – 2744, 2012

Publications

Non- Cited Journals

19. Anijofor, S.C., Nik Daud, N.N., **Idrus S** and Ahsan A., Aged refuse characterization as resource for wastewater treatment and landfill remediation, *International Journal of Waste Resources* Vol 7(2) p 1 – 4, 2017
20. Nurul Shafiqah Rosli and **Syazwani Idrus**, Assessment of Potential Biogas Production from Rice Straw Leachate in Upflow Anaerobic Sludge Blanket Reactor (UASB), *International Journal of Smart Grid and Clean Energy*, Vol 5(3) p 135 – 143, 2016
21. N. N. Nik Daud, O. A. Adeleke and **S. Idrus**, Preliminary Assessment of Lakes Water Quality Status at Campus Area in Selangor, Malaysia, *Malaysian Journal of Civil Engineering (MJCE) Special Issue* Vol 28(1) p 42 – 49, 2016
22. **Idrus, S.**, Banks, C., & Heaven, S., Comparison of an Upflow Anaerobic Sludge Blanket and an Anaerobic Filter for Treating Wheat Straw Washed water, *Journal of Hydrology and Environment Research*, Vol 3(1) p 30 – 37, 2015

Conference Proceedings

1. **Syazwani Idrus**, Sim Jian Zhe, Nurul Shafiqah Rosli and Nik Norsyahariati Nik Daud, Co-Digestion of Rice Straw Leachate and Domestic Waste Water for Biogas Production with Addition of Urea as Nitrogen Source, *Proceedings – 3rd International Conference on Biotechnology and Agriculture Engineering*, Osaka Japan, 2017
2. **Syazwani Idrus**, Uzana Ismail, Nik Norsyahariati Nik Daud, Mesophilic Co-digestion of Automotive Wastewater And Rice Straw Leachate In Continuous Stirred Tank Reactor (CSTR), *Proceedings – International Symposium of Water and Wastewater Management*, Malatya Turkey, 2016
3. Nurul Shafiqah Rosli, **S. Idrus**, Md Dom A. and Nik Daud N., Potential of pineapple waste extract (PWE) as co-substrate in Anaerobic Digestion of Rice straw Washed Water (RSWW): Enhancement of biogas production, *Proceedings – Global Civil Engineering Conference*, Kuala Lumpur, 2017
4. **Idrus, S.**, Banks, C., & Heaven, S., Comparison of an Upflow Anaerobic Sludge Blanket and an Anaerobic Filter for Treating Wheat Straw Washwater, *Proceedings – International Conference on Future Environment and Energy*, Dubai UAE, 2015
5. **Idrus, S.**, Banks, C.J., Heaven, S. and Nik Daud, N., Anaerobic Digestion of Domestic Wastewater in different Salinity Levels: The Adaptation Process, *Proceedings – World Research and Innovation Convention on Engineering and Technology*, Putrajaya Malaysia, 2014
6. Khairul Anuar, N., Che Man, H., **Idrus, S.**, Nik Daud, N. N, Biochemical Methane Potential (BMP) from Anaerobic Co-digestion of Sewage Sludge and Decanter Cake, *IOP Conference Series: Materials Science and Engineering* Vol. 368(1), p.12 – 27, 2018
7. Nik Norsyahariati Nik Daud, A Abdul Rahman, **S Idrus**, Preliminary assessment of lakes water quality status at campus area in Selangor Malaysia, *Proceedings – Malaysian Journal of Civil Engineering* 28, 2016
8. Adeleke A.O, Nik Daud, N. and **S. Idrus**, Preliminary Assessment of Lakes Water Quality Status at Campus Area in Selangor, Malaysia, *Proceedings – World Research and Innovation Convention on Engineering and Technology*, Putrajaya Malaysia, 2014
9. **Idrus, S.**, Banks, C., & Heaven, S., Assessment of the potential for biogas production from wheat straw washwater in upflow anaerobic sludge blanket digesters, *Proceedings – International Symposium on Anaerobic Digestion of Solid Waste and Energy Crops*, Vienna Austria, 2012
10. **Idrus, S.** & Tajuddin, R.M., The effect of bubble size on the Rate Of Oxygen Transfer During Aeration Process, *Proceedings – World Engineering Conference*, Penang, Malaysia, 2007

Publications

Books

1. Rosli N.S., **Idrus S***, Md Dom A., Nik Daud N. N., Potential of Pineapple Waste Extract (PWE) as Co-substrate in Anaerobic Digestion of Rice Straw Washwater (RSWW): Enhancement of Biogas Production., Lecture Notes in Civil Engineering Vol 9, pg. 1479 – 1493, 2019. Chapter (Indexed by Scopus)

2. Badronnisa Yusuf, Aidi Hizami Ales@Alias, Mohd Shahrizal Ab Razak, Noor Azline Mohd Nasir, Nabilah Abu Bakar, **Syazwani Idrus**, Zainuddin Md Yusoff, Nuzul Azam Haron, Nor Azizi Safiee, Farah Nora Aznieta Abd Aziz, Fauzan Mohd Jakarni “1985 – 2015, 30 Tahun Jabatan Kejuruteraan Awam, UPM”, Universiti Putra Malaysia, ISBN 978-967-344-592-9, 2016

Publications

Monograph/Module/Popular Writing & Article/Design

1. Newspaper article on project “Pembinaan 2 Unit Rumah Rumah Orang Asli” 24th July 2016, Utusan Malaysia

2. Innovation in wastewater and recyclable semi-solid wastes produces gas, Website Universiti Putra Malaysia, News :Published 31 Jan 2020
https://www.upm.edu.my/berita/inovasi_air_sisa_dan_sisa_separa_pepejal_boleh_diguna_semula_hasilk_an_gas-55157?L=en

Research Grants (Principal Investigator)

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Food Waste Characterization for Biogas Anaerobic Digestion Process (PI)	RM 219,803	Aug 2019 to Sept 2020	TNBR Sdn. Bhd.(Geran Swasta)
2.	Biogas Production from Slaughter House Wastewater and Treatment using Hybrid Upflow Anaerobic Membrane Bioreactor with Coagulation zone coupled to aerobic membrane (PI)	RM 25,000	Apr 2018 to Oct 2020	Geran Putra Inisiatif Siswazah, Putra-UPM
3.	Co-digestion of Rice Straw Leachate and Domestic Wastewater for Biogas Production in Continuous Stirred Tank Reactor (CSTR) (PI)	RM 50,000	Mar 2015 to Sep 2017	Geran Putra Inisiatif Siswazah
4.	Investigating the kinetics of co-digestion of Rice Straw Leachate and Domestic Wastewater for Optimal Biogas Production in UASB (PI)	RM 76,000	Dec 2014 to Aug 2017	FRGS-MOHE
5.	Community Project: Construction of 2 unit houses for Orang Asli, Kampung Kachau Luar, Semenyih (PI)	RM 86,000	2015 to 2017	UCTCF-05-15-006, NBOS MOHE
6.	A feasibility Study on Biogas Production using Continuous Stirred Tank Reactor from Domestic Wastewater Produced by ‘Off-grid’ households and communities in Royal Belum (Co - researcher)	RM 13,000	Nov 2017 to Apr 2018	Newton Fund (Researcher Link-Work shop)
7.	Innovative designs of sustainable agro-hydro-health systems for off-grid communities in a changing Malaysia (Co -researcher)	RM 245, 933	Apr 2017 to Mar 2018	Geran Swasta/ Antarabangsa

8.	Integration of electrocoagulation and palm-shell activated carbon contactor to remove multi-pollutants from landfill leachate: a sustainable approach. (Co - researcher)	RM 20,000	Apr 2016 to Sep 2017	Geran Putra Inisiatif Siswazah
9.	The Efficiency Of Aged Refuse As A Biofilter For Leachate Treatment. (Co - researcher)	RM 90,000	Jan 2015 to Jan 2018	Geran Putra Individu/ Berimpak
10.	Braided River Enhancement Using Spur Dikes. (Co -researcher)	RM 110,000	Mar 2015 to Mar 2017	Geran Putra Individu/ Berimpak
11.	A Comparative Study On The Properties Of Pofa Blended Concrete (Co -researcher)	RM 50,000	Mar 2015 to Sep 2017	Geran Putra Inisiatif Putra Muda
12.	Development of an Active Forced Convection Solar Still Coupled With External Condenser, Solar Panel and Heater To Produce Potable Water From Saline Water (AFSSCP) (Co - researcher)	RM 20,000	Dec 2015 to Dec 2017	Geran Putra Inisiatif Siswazah
13.	Anaerobic conversion of biomass for biogas production, Bio reactor design - Upflow Anaerobic Sludge Blanket, Continuous Stirred Tank Reactor and AnaerobicFilter	-	2009 – 2013	Bioenergy and Organic Resources Research Group UK

Consultation (Project Leader)

Project Title	Amount (RM)	Year	Source of Fund
Chemical and Biochemical Analysis of Anaerobic Digestion Process Using Food Waste as Feedstock	RM 130,838	Oct 2018 to Jun 2019	TNBR Sdn. Bhd.

Awards/Recognition

No	Award Type	Title	Award Authority	Level	Year
1.	Industrial Project	Head of Project, Food Waste Characterization for Biogas Anaerobic Digestion Process Cattle Slaughterhouse	Tenaga Nasional Berhad Research Sdn Bhd	Private Organization	2019 – 2020
2.	Bronze medal	Wastewater Treatment Using Modified UASB	Universiti Putra Malaysia	Engineering Innovation Exhibition	2019
3.	Industrial Project	Head of Project, Chemical and Biochemical Analysis of Anaerobic Digestion Process Using Food Waste as Feedstock	Tenaga Nasional Berhad Research Sdn Bhd	Organization	2018 – 2019
4.	Gold Medal	Research Project, Adsorptive Removal of Heavy Metals from Groundwater	Faculty of Engineering, UPM	FYP Open Day	2018
5.	Silver Medal	Research Project, Biodegradation Rate of Textile Wastewater by Co Digestion of Food Waste and Cow Manure	Faculty of Engineering, UPM	FYP Open Day	2018

6.	Best Project Award	Adsorptive removal of heavy metals from groundwater	Faculty of Engineering, UPM	Pre-Graduation Ceremony	2018
7.	Bronze Medal	A Comparison Between Ambient, Mesophilic and Thermophilic Upflow Anaerobic Sludge Blanket (UASB) Reactors Treating Livestock Wastewater	Faculty of Engineering, UPM	FYP Open Day	2017
8.	Certificate	Excellent Teaching Award (Undergraduates)	UPM	University	2018
9.	Certificate	Excellent Teaching Award (Postgraduates)	UPM	University	2018
10.	Certificate	Excellent Teaching Award	UPM	University	2017
11.	Certificate	Excellent Service Award (<i>Anugerah Perkhidmatan Cemerlang</i>)	UPM	University	2017
12.	Certificate, Award	Excellent Service Award	UPM	University	2016
13.	Certificate	Excellent Service Award	UPM	University	2012
14.	Certificate	Academic Award	UPM	University	2008

Student Supervision

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Mohammed Ali Musa	Treatment of Cattle Slaughterhouse Wastewater And Biogas Production Using Upflow Anaerobic Sludge Blanket (UASB) Reactors	Completed

PhD (Co-Supervisor)

No.	Name	Title	Status
1.	Ali Omran Muhsin Al-Sulttani	Productivity Enhancement and Modeling of A New Double-Slope Solar Still with Rubber Scrapers In Low Latitude Areas	Completed
2.	Anijiofor Sandra Chinenyenwa	Adsorption and Biodegradation of Pollutants from Livestock Wastewater by Aged Refuse Bioreactor	Completed
3.	Iqbal Khalaf Erabee	Development of A Hybrid Technique by Integrating Electrolysis with Sago Palm Bark Activated Carbon to Treat Landfill Leachate	Completed
4.	Nur Muhammad Afifi Bin Zainal	Biogas Optimization from Anaerobic Digestion of Food waste: Techno-economic	On going

MS with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Nurul Shafiqah Rosli	Rice Straw Wastewater With Urea and Co-Digestion of Anaerobic Treatment Application	Completed
2.	Tuan Nurfarhana Tuan Mohd Marzuki	Bio-Methane Production from Chicken Slaughterhouse Wastewater using UASB Reactor	On going

(Co)

No.	Name	Title	Status
1.	Norshafiqah Binti Khairul Anuar	Biomethane production from anaerobic process of sewage sludge	On going
2.	Zhang Ye	Grey water treatment for irrigation purposes	On going

MS by coursework (Main Supervisor)

No.	Name	Title	Status
1.	Azmir Md Dom	Assessment of Potential for Biogas Production from Rice Straw Leachate (RSL) & Fruit Waste Extract (FWE) in UASB (Upflow Anaerobic Sludge Blanket) Reactor	Completed
2.	Uzana Ismail	Evaluation Of Potential Of Biogas Production From Automotive Wastewater And Rice Straw Leachate In Continuous Stirred Tank Reactor (CSTR)	Completed
3.	Fauziah Abdul Wahid	Treatment Of Food Court Wastewater Using UASB Reactor: The Biogas Production and Removal Of Oil & Grease.	Completed
4.	Ahmad Abdi Ginde	Evaluation Of The Potential Of Lake Water Treatment Using Synthetic Adsorbent And Aeration Process	Completed
5.	Abdulrahman Abdullahi Osman	Investigating the Effectiveness of Natural Adsorbent Couple With Membrane Filtration In Treating Slaughterhouse Wastewater	Completed
6.	Prakash A/L Pechmani	Investigating The Efficiency Of Adsorption Technique As Pretreatment For Membrane Filtration In Eliminating Metals In Groundwater	Completed
7.	Hussein Shuaib Said	Investigating The Potential Of Grey Water For Agricultural Purposes	Completed
8.	Rayner Thiam	Textile Wastewater Treatment Using Anaerobic Digestion And Adsorptive Method	Completed
9.	Ali Ismail Gurhan	Investigating The Potential Of Coconut Shell And Rice Husk For Food Court Wastewater Treatment	Completed
10.	Ahmad Fuad Zainudin	Zero Effluent Discharge Of Water Treatment Plant Using Atomix Cougulator	Completed
11.	Mir Naveed Ahmed Zehri	Development Of Agro Waste Adsorbent For The Removal Of Organic Matter And Iron From Groundwater	Completed
12.	Gilbert Jee Wen Cheng	Recycled Glass As Alternative Ballasting Agent For Ballasted Flocculant Treatment Process	Completed
13.	Hamad Nouri	Investigating the potential of Agro Waste Adsorbent For Groundwater Treatment: Column Filtration vs Batch Study	On going
14.	Barre Ahmed Jama	Assessment of slaughterhouse waste water treatment using upflow anaerobic sludge blanket reactor	On going
15.	Abdirahman Abdiqani Jamal	Treatment of cow manure using continuous stirred tank reactor under thermophilic condition	On going

Bachelor Engineering Projects (Main Supervisor)

No.	Name	Title	Status
1.	Sim Jian Zhi	Co-digestion of rice straw leachate and domestic wastewater for biogas production: The carbon balance	Completed
2.	Lee Yau Loon	Co-digestion of rice straw leachate and domestic wastewater for biogas production: The removal of light metal cations	Completed

No.	Name	Title	Status
3.	Low Phak Sheng	Co-digestion of rice straw leachate and domestic wastewater for biogas production: The accumulation of total ammonia nitrogen	Completed
4.	Marziah Md Isa	Thermophilic digestion of chicken slaughtering house wastewater (formation of total ammonia nitrogen)	Completed
5.	Zulkarnain Shamsuri	Thermophilic digestion of Rice straw washed water and domestic wastewater	Completed
6.	Wan Nur Akalili Wan Tajudin Shah	Comparison Between Ambient, Mesophilic, and Thermophilic using UASB in Treating Livestock Wastewater	Completed
7.	Nurhasanah Ashard Binti Bustari	Anaerobic co digestion of rice straw washed water and organic waste in different salinity level	Completed
8.	Muhammad Hanif Bin Mohd Suhaimi	Performance of solar still coupled with dc heater to produce potable water from seawater	Completed
9.	Norliyana Hussin	Co-Digestion Of Textile Industry Wastewater And Food Waste At Low Temperature	Completed
10.	Darwina Anak Rone	Adsorptive Removal Of Metals From Groundwater	Completed
11.	Rusfaradila Madda	Groundwater Treatment Using Membrane Technology And Physical Separation	Completed
12.	Natasha Adlin Mansor	Investigating The Potential Of Dyes Removal In Textile Wastewater Using Anaerobic Rector Bio Granular System	Completed
13.	Said Nuh Iqbal Said Indra	Assessment Of The Potential For Biogas Production From Food Waste At Room And Mesophilic Temperature	Completed
14.	Muhammad Idham Che Lah	Evaluation of effective microorganism (EM) and anaerobic process (AD) for treatment of livestock wastewater	On-going
15.	Najua Emelda Hakimi Taib	Co-digestion of food and chicken manure with mixed sludge from wastewater treatment in continuously stirred tank reactors	On-going
16.	Wan Nur Syafiqah W. Ahmad Puzi	Integrated anaerobic digestion and adsorbent technique for textile wastewater treatment	On-going

Teaching Experience				
No	Course	Credit hour	Level	Semester
1.	ECV 3405 Water & Wastewater Engineering	3 (2+1)	Bachelor	Semester 2 2013/2014
2.	ECV 3408 Environmental Engineering	2 (2+0)	Bachelor	Semester 1 2014/2015
3.	ECV 5409 Water Quality & Quantity Laboratory	1 (0+1)	Master	Semester 2 2014/2015
4.	ECV 3405 Water & Wastewater Engineering	3 (2+1)	Bachelor	Semester 2 2014/2015
5.	ECV 3408 Environmental Engineering	2 (2+0)	Bachelor	Semester 1 2015/2016
6.	ECV 3405 Water & Wastewater Engineering	3 (2+1)	Bachelor	Semester 2 2015/2016
7.	ECV 3408 Environmental Engineering	1 (1+0)	Bachelor	Semester 1 2016/2017
8.	ECV 4406 Advance Water & Wastewater Engineering	3 (3+0)	Bachelor	Semester 1 2016/2017

9.	ECV 4403 Groundwater Engineering	3 (3+0)	Bachelor	Semester 2 2016/2017
10.	ECV 5403 Design of Water and Wastewater Treatment	3 (3+0)	Master	
11.	ECV 4406 Advance Water & Wastewater Engineering	3 (3+0)	Bachelor	Semester 1 2017/2018
12.	ECV 5406 Groundwater Hydraulics	3 (3+0)	Master	
13.	ECV 4403 Groundwater Engineering	3 (3+0)	Bachelor	Semester 2 2017/2018
14.	ECV 5415 Design of Water and Wastewater Treatment	3 (3+0)	Master	
15.	ECV 4406 Advance Water & Wastewater Engineering	3 (3+0)	Bachelor	Semester 1 2018/2019
16.	ECV 5417 Groundwater Hydraulics	3 (3+0)	Master	
17.	ECV 3413 Environmental Engineering Laboratory	4(3+1)	Bachelor	
18.	ECV 4403 Groundwater Engineering	3 (3+0)	Bachelor	Semester 2 2018/2019
19.	ECV 5415 Design of Water and Wastewater Treatment	3 (3+0)	Master	
20.	ECV 3413 Environmental Engineering	4(3+1)	Bachelor	Semester 1 2019/2020
21.	ECV 5417 Groundwater Hydraulics	3 (3+0)	Master	
22.	ECV 4412 Water and wastewater Treatment	3 (3+0)	Bachelor	Semester 2 2019/2020
23.	ECV 5415 Design of Water and Wastewater Treatment	3 (3+0)	Master	