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# Prof. Ts. Dr. Zurina Zainal Abidin

## Experience

- ❖ Process Engineer, Elektrisola (M) Sdn Bhd, Janda Baik, Pahang
- ❖ Tutor, Universiti Putra Malaysia
- ❖ Senior Lecturer/Associate Professor, Universiti Putra Malaysia
- ❖ 2020–present, Professor, Universiti Putra Malaysia

## Education

**Loughborough University, Loughborough, United Kingdom**  
1997, BEng (Hons) Chemical Engineering

**UMIST, Manchester, United Kingdom**  
2002, Msc Biotechnology

**University of Manchester, Manchester, United Kingdom**  
2006, PhD in Biochemical Engineering

## Area of Interest

- Biochemical Engineering and Separation Technology
- Elektrokinetik, Microfluidics, Biosensor
- Water/Wastewater Treatment

## Professional Qualifications/Membership

Chartered Engineer of Engineering Council/ICHEME  
Professional Technologist, Malaysia Board of Technology (MBOT)  
Member, Institute of Chemical Engineers (ICHEME)  
Graduate Member, Board of Engineers Malaysia (BEM)  
Life Member of Institute Engineers Malaysia (IEM)  
Member of Akademi Profesor Malaysia (APM)  
Member of Society of Engineering Education Malaysia (SEEM)  
Member of Persatuan Saintis Muslim Malaysia (PERINTIS)

<b>APPOINTMENTS</b>			
<b>NO</b>	<b>POSITION</b>	<b>ORGANIZATION</b>	<b>DURATION/YEAR</b>
1	Vice Chairman Safety Committee	Elektrisola (M) Sdn Bhd	1997-1998
2	Internal Auditor	Elektrisola (M) Sdn Bhd	1997-1998
3	Department Laboratory Coordinator	Department of Chemical and Environmental Engineering, UPM	Jan 2007-Dec 2008
4	Member of Faculty Safety Committee	Faculty of Engineering, UPM	Dec 2007– Dec 2008
5	Head of Process Lab 2	Department of Chemical and Environmental Engineering, UPM	2007-2014
6	Committee Member of Environmental Engineering Master Programme	Department of Chemical and Environmental Engineering, UPM	2007-present
7	Head of Biochemical Engineering Research Section	Department of Chemical and Environmental Engineering, UPM	2008-2011
8	Deputy JINM Coordinator	Department of Chemical and Environmental Engineering	2011-2014
9	Secretary of Faculty	TASKA committee, Faculty of Engineering, UPM	2011-2014
10	Research Associate	Institute of Advanced Technology (ITMA), UPM	2011-2016
11	Committee Member of Cleanroom Management	Universiti Putra Malaysia	2013-2019
12	Research Associate	Aerospace Manufacturing Research Centre (AMRC)	2014-2015
13	Head of Industry and Community Relations (JINM)	Department of Chemical and Environmental Engineering, UPM	2015- Jan 2018
14	Visiting Scholar	Fatih Universitesi, Turkey	Sept 2014- Jan 2015
15	Head of Industry and Community Relations (JINM)	Faculty of Engineering, UPM	Mac 2017-Mac 2019
16	AunSeed Visiting Scholar	Ho Chi Minh University, Vietnam	July 2016
17	Committee Putra Massive Open Online Course (MOOC) –Biochemical Engineering Course	Faculty of Engineering, UPM	April 2017-Dec 2017
18	STEM Activities Head/Committee Member	UPMSTEM, Universiti Putra Malaysia	Dec 2018-present
19	Committee Member	Centre of Biomedical Systems	2018-2019
20	Head of Biochemical Engineering Lab	Department of Chemical and Environmental Engineering, UPM	2020-2022
21	Head of Biochemical Engineering Research Group	Department of Chemical and Environmental Engineering, UPM	2020-2022

TEACHING EXPERIENCE			
SEMESTER	CODE	COURSE NAME	CREDIT
1 2006/2007	ECH 3106	Engineering Maths 1	(3+0)
	KKA 3703	Chemical Engineering Lab 3(K1)	(0+1)
2 2006/2007	KKA 3311	Heat Transfer	(4+0)
	KKA 3702	Chemical Engineering Lab 2 (K1)	(0+1)
1 2007/2008	ECH3106	Heat Transfer	(4+0)
	KKA3703	Chemical Engineering Lab 3	(0+1)
2 2007/2008	KKA 4601	Polymer Engineering	(3+0)
1 2008/2009	ECH 3106	Heat Transfer	(4+0)
	KKA 3701	Material Engineering Lab	(0+1)
2 2008/2009	KKA4201	Recovery Processes	(3+0)
	ECH3101	Unit Operation I	(3+0)
1 2009/2010	ECH3106	Heat Transfer	(4+0)
	ECH3999A	Final Year Academic Project	(0+2)
2 2009/2010	ECH4201	Recovery Processes	(3+0)
	ECH3999B	Final Year Academic Project	(0+4)
1 2010/2011	ECH3106	Heat Transfer	(4+0)
	ECH3903	Material Engineering Lab	(0+1)
2 2010/2011	ECH4201	Recovery Processes	(3+0)
	ECC3004	Engineering Statistics	(3+0)
1 2011/2012	ECH3106	Heat Transfer	(4+0)
	ECH3903	Material Engineering Lab	(3+0)
2 2011/2012	ECH3102	Biochemical Engineering	(2+1)
	ECC3004	Engineering Statistics	(3+0)
1 2012/2013	ECH3106	Heat Transfer	(0+2)
	ECC3001	Engineering Mathematics 1	(3+0)
1 2013/2014	ECH3906	Computer Aided Chemical Engineering Drawing	(0+2)
2 2014/2015	ECH4901	Industrial Training	(0+5)

	ECC3002	Engineering Mathematics 2	(3+0)
1 2015/2016	ECH4901	Industrial Training	(0+5)
	ECC3001	Engineering Mathematics 1	(3+0)
2 2015/2016	ECH4901	Industrial Training	(0+2)
	ECC3002	Engineering Mathematics 2	(3+0)
1 2016/2017	ECH3906	Computer Aided Chemical Engineering Drawing	(0+2)
	ECH4901	Industrial Training	(0+5)
2 2016/2017	ECC3002	Engineering Mathematics 2	(3+0)
1 2017/2018	ECH3907	Computer Aided Chemical Engineering Drawing	(1+2)
	ECH4901	Industrial Training	(0+5)
2 2017/2018	ECH3117	Unit Operation	(3+0)
1 2018/2019	ECH3907	Computer Aided Chemical Engineering Drawing	(1+2)
	ECH4901	Industrial Training	(0+5)
2 2018/2019	ECH3117	Unit Operation	(3+0)
1 2019/2020	ECH3907	Computer Aided Chemical Engineering Drawing	(1+2)
	ECH4901	Industrial Training	(0+5)
2 2019/2020	ECH3117	Unit Operation	(3+0)
1 2020/2021	ECH4901	Industrial Training	(0+5)
	ECH3118	Physical Separation	(3+0)
2 2020/2021	ECH3117	Unit Operation	(3+0)
1 2021/2022	ECH3118	Physical Separation	(3+0)
2 2021/2022	ECH3117	Unit Operation	(3+0)
1 2022/2023	ECH3118	Physical Separation	(3+0)

PUBLICATIONS-JOURNAL PAPERS		
NO	TITLE	YEAR
1	<b>Zurina Z. Abidin</b> and Gerard H. Markx. (2005) High-gradient electric field system for the dielectrophoretic separation of cells, Journal of Electrostatics, Volume 63, Issues 6-10, Pages 823-830 (IF:1.688)	2005*
2	<b>Z. Zainal Abidin</b> , A.G Liew Abdullah, Z. Yunus, G.H Markx. Wire Cloth Electrodes: A study of electric field for dielectrophoretic separation of cells, International Journal of Engineering and Technology, 4(2): 205-212.	2007*
3	<b>Abidin, Z.Z.</b> , Downes, L. And Markx, G.H. (2007). Novel electrode structures for large scale dielectrophoretic separations based on textile technology. Journal of Biotechnology, 130 (2)2, 15 June 2007, Pages 183-187 (IF:3.34)	2007*
4	<b>Abidin, Z.Z.</b> , Downes, L. And Markx, G.H. (2007) Large scale dielectrophoretic construction of biofilms using textile technology. Biotechnol. Bioeng. 96, 1222-1225. (IF:3.648)	2007*
5	<b>Z. Zainal Abidin</b> , D.R. Awang Biak, N. Hafifudin, G.H. Markx. (2008). Factors affecting dielectrophoretic separation of cells using high-gradient electric field strength system, Journal of Science and Technology (JESTEC). April: 1, 30-39 (Cited)	2008*
6	Fakhru'l-Razi, A., Pendashteh, A., Abdullah, L.C., Biak, D.R.A., Madaeni, S.S., Abidin, Z.Z. (2009). Review of technologies for oil and gas produced water treatment, Journal of Hazardous Materials, 170 (2-3) pp. 530-551. (IF:4.879)	2009
7	Sepidar Sayyar, <b>Zurina Zainal Abidin</b> , Robiah Yunus and Azhari Muhammad (2009). Extraction of Oil from Jatropha Seeds-Optimization and Kinetics, American Journal of Applied Sciences 6 (7): 1390-1395 (Mostly cited)	2009*
8	<b>Abidin Z.Z.</b> , Z Yunus, G.H. Markx. (2009). Dielectrophoretic Separation of Cells using 3-D Microelectrode, PERTANIKA Journal of Science and Technology, 17 (2). (IF 0.01)	2009*
9	Herliati, Robiah Yunus, A.S. Intan, Z.Z. Abidin, Dzulkefly Kuang, (2010), Preliminary Design of Semi-Batch Reactor for Synthesis 1,3-Dichloro-2-Propanol Using Aspen Plus, International Journal of Chemistry, 2 (2), August 2010. (Index CAS)	2010
10	A.R Pendashteh, A. Fakhru'l-Razi, T.G Chuah, A.B Dayang Radiah, S.S. Madaeni and Z.Z. Abidin, Biological treatment of produced water in a sequencing batch reactor by a consortium of isolated halophilic microorganisms, Environmental Technology, 31(2010) 1229-1239,	2010

	(IF:1.606)	
11	Fakhru'l-Razi, A., Pendashteh, A., Abdullah, L.C., Biak, D.R.A., Madaeni, S.S., Abidin, Z.Z. (2010). Application of membrane-coupled sequencing batch reactor for oilfield produced water recycle and beneficial re-use, <i>Bioresource Technology</i> , 101 (18) pp. 6942-6949 (IF:5.172)	2010
12	Pendashteh, A.R., Fakhru'l-Razi, A., Chaibakhsh, N., Abdullah, L.C., Madaeni, S.S., Abidin, Z.Z.(2011), Modeling of membrane bioreactor treating hypersaline oily wastewater by artificial neural network, <i>Journal of Hazardous Materials</i> , 192(2), 568-575 (IF:4.679)	2011
13	Rashid, A.M., Dayang Radiah, A.B., <b>Zurina, Z.A.</b> , Fakhru'l-Razi, A. (2011). Low-temperature synthesis of carbon nanotubes via floating catalyst chemical vapour deposition method, <i>Fullerene Nanotubes and Carbon Nanostructures</i> , 19(6), 522-531. (IF:0.71)	2011
14	M.Y. Harun, A.B. Dayang Radiah, <b>Z. Zainal Abidin</b> , R. Yunus (2011). Effect of physical pretreatment on dilute acid hydrolysis of water hyacinth ( <i>Eichhornia crassipes</i> ), <i>Bioresource Technology</i> , 102 (8): 5193-5199. (IF:5.172)	2011
15	<b>Zurina Z. Abidin</b> , Ismail, N., Yunus, R., I.S. Ahamad, A. Idris. (2011), A preliminary study on <i>Jatropha curcas</i> as coagulant in wastewater treatment, <i>Environmental Technology</i> , 32(9), 971-977. (IF:1.606)	2011*
16	Sepidar Sayyar, <b>Zurina Zainal Abidin</b> , Robiah Yunus, Azhari Muhammad (2011). Solid liquid extraction of <i>Jatropha</i> seeds by microwave pretreatment and ultrasound assisted methods, <i>Journal of Applied Science</i> , 11 (13): 2444-2447. (Cited)	2011*
17	Fakhru'l-Razi, A., Pendashteh, A., Abdullah, L.C., Biak, D.R.A., Madaeni, S.S., Abidin,Z.Z. (2011), Membrane Fouling Characterization in a Membrane Bioreactor (MBR) Treating Hypersaline Oily Wastewater, <i>Chemical Engineering Journal</i> , 168(1), 140-150 (IF:3.691)	2011
18	Sayyar, S., <b>Abidin, Z.Z.</b> , Yunus, R., 2012 Optimisation of solid liquid extraction of <i>Jatropha</i> oil using petroleum ether, <i>Asia Pacific Journal of Chemical Engineering</i> , 8(3), 331-338, (IF:0.797)	2012*
19	M.A. Shavandi, Raha Zahra Haddadian, Mohd Halim Shah Ismail, Norhafizah Abdullah, Zurina Zainal Abidin, (2012). Removal of Fe(III), Mn (II) and Zn (II) from palm oil mill effluent (POME) by Adsorption on natural zeolite, <i>Water Soil and Air Pollution</i> , 223 (7): 4017-4027	2012
20	M.A. Shavandi, Raha Zahra Haddadian, Mohd Halim Shah Ismail, Norhafizah Abdullah, Zurina Zainal Abidin, (2012). Removal of Residual Oil from palm oil mill effluent (POME) by natural zeolite, <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 43 (5): 750-759	2012

21	Muhammad Hazwan H., Hasfalina C. M., Hishamuddin J., and Zurina Z. A. (2012). Optimization and Kinetics of Essential Oil Extraction from Citronella Grass by Ohmic Heated Hydro Distillation," International Journal of Chemical Engineering and Applications vol. 3, no. 3, pp. 173-177, 2012 (Cited)	2012
22	Alireza Pendashteh, Luqman Chuah Abdullah, A. Fakhru'l-Razi, Sayed Siavash Madaeni, <b>Zurina Zainal Abidin</b> and Dayang Radiah Awang Biak (2012). Evaluation of Membrane Bioreactor for Hypersaline Oily Wastewater Treatment. Process Safety and Environmental Protection, 90, 45-55. (IF:1.757)	2012
23	Mustapha, S., Chandar, H., <b>Z. Z. Abidin</b> , R. Saghravani, M.Y. Harun. (2011). Production of semi- refined carrageenan from <i>Eucheuma cottonii</i> , Journal of Scientific and Industrial Research, 70, 865-870. (IF:0.735)	2012
24	Mazyar Peyda, A. Fakhru'l-Razi, Mohamad Pauzi Zakaria and Zurina Zainal Abidin (2013). Polymer Partitioning approach for petroleum hydrocarbon reduction in a clay soil, Water Air Soil Pollution, 224:1496 DOI 10.1007/s11270-013-1496-2 (IF:1.748)	2013
25	Haddadian, Z., Shavandi, M.A., <b>Abidin, Z.Z.</b> , Ismail, M.H.S., Fakhrul-Razi, A. (2013). Methyl Orange Removal from Aqueous Solutions using Dragon Fruit ( <i>Hylocereus undatus</i> ) Foliage, Chemical Science Transactions, 2(3), 900-910. DOI:10.7598/cst2013.439 (Cited Scopus)	2013*
26	<b>Abidin, Z.Z.</b> , Mohd Shamsudin, N.S, Madehi, N., Sobri, S. 2013. Optimisation of a method to extract the active coagulant agent from <i>Jatropha curcas</i> seeds for use in turbidity removal, Industrial Crops and Products, 41, 1, 319-323 (IF:4.191)	2013*
27	Herliati, Rahman, Robiah Yunus, Umer Rashid, Zurina Zainal Abidin, Intan Salwani Ahamad (2014), Synthesis of 1,3- Dichloropropanol from Glycerol Using Muriatic Acid as Chlorinating Agent, Asian Journal of Chemistry, 26(10): 2907-2912.	2014
28	<b>Abidin, Zurina Zainal</b> , Z. Haddadian, MA Shavandi, Shah Ismail, M.H., Ahmadun, F.R (2014), Methylene Blue Removal from Aqueous Solution by <i>Hylocereus undatus</i> (Dragon Fruit) Foliage, Applied Mechanics and Materials, 625, 864-869 (Cited Scopus).	2014*
29	MR Shafad, IS Ahamad, A Idris, Z Zainal Abidin (2014). A Preliminary Study on Dragon Fruit Foliage as Natural Coagulant for Water Treatment, International Journal of Engineering 2(2),	2014
30	Nor Saiful Hafiz Abdul Habib, Robiah Yunus, Umer Rashid, Taufiq-Yap YH, Zurina Zainal Abidin Azhari Muhammad Syam, Irawan S. Transesterification Reaction for Synthesis of Palm-based Ethylhexyl	2014

	Ester and Formulation as Base Oil for Synthetic Drilling Fluid, (2014), Journal of Oleo Science, 63(5) pp 1-8. (IF:1.208)	
31	Nor Saiful Hafiz Abdul Habib, Robiah Yunus, Umer Rashid, Taufiq-Yap YH, Zurina Zainal Abidin Azhari Muhammad Syam, (2014) Synthesis of palm-based ethylhexyl ester as a synthetic base oil for drilling fluids using chemical transesterification, Grasas Y Aceites 65(1) pp 1-8. (IF:0.891)	2014
32	<b>Zurina Z. Abidin</b> , Fatin N. Omar, Dayang R. A. Biak, Pavithiran Yogarajah, Yaakob C. Man. (2014). Dielectric characterization of Liquid Containing Low Alcoholic Content for Potential Halal Authentication in the 0.5 – 50 GHz range, American Journal of Applied Science, 11, (7), 1104-1112.	2014*
33	Balavandy, S.K., Shameli, K., Biak, D.R.B.A., <b>Abidin, Z.Z.</b> (2014), Stirring time effect of silver nanoparticles prepared in glutathione mediated by green method, Chemistry Central Journal, 8 (1) (IF 3.28).	2014*
34	<b>Zurina Z. Abidin</b> , Fatin N. Omar, Dayang R. A. Biak, Yaakob C. Man. 2014. Dielectric characterization of Ethanol and Sugar Aqueous Solutions for potential halal authentication, International Journal of Microwave and Optical Technology, 9. (Cited Scopus)	2014*
35	<b>Zurina Z Abidin</b> , Mohd Salleh, M.A., Harun, M. Y., Abu Bakar, N (2014). Biosorption of Zn(II) from Aqueous solution of <i>Jatropha curcas</i> presscake, Journal of Scientific & Industrial Research, March 2014, 191-194.(IF 0.505)	2014*
36	<b>Zurina Zainal Abidin</b> , Mohd Fadzli Mohamed, Abdul Ghani Liew Abdullah (2014). Preliminary study of Rambutan ( <i>Nephelium Lappaceum</i> ) Seed as Potential Biocoagulant for Turbidity Removal, Advanced Materials Research, 917, 96-105. (Cited Scopus)	2014*
37	Hamzah, M.H., Che Man, H., Abidin, Z.Z., Jamaludin, H. (2014). Comparison of citronella oil extraction methods from <i>Cymbopogon nardus</i> grass by ohmic-heated hydro-distillation, hydro-distillation, and steam distillation. BioResources, 9 (1), 256-272 (IF1.309)	2014
38	Fakhru'l-Razi Ahmadun, Mazyar Peyda, Mohammad Pauzi Zakaria, Wan Azlina Wan Ab Karim Ghani, Zurina Zainal Abidin, Hassan Moeini (2014) Biotechnology Progress, 30(4), 797-782 (IF:2.4)	2014
39	Nour Sh. El-Gendy, <b>Zurina Zainal Abidin</b> , Salem S. Abu Amr, Hussein N. Nassar (2015) Statistical optimization of alginate immobilization process of <i>candida stauntonica</i> strain MY1 for bioethanol production, International Journal of Current Microbiology and Applied Sciences, 4(3): 397-420	2015*

40	Balavandy, S.K., Shameli, K., <b>Abidin, Z.Z.</b> (2015), Rapid and Green Synthesis of Silver nanoparticles via sodium alginate media, International Journal Electrochemical Science, 10, 486-497. (IF:1.284)	2015
41	<b>Zurina Zainal Abidin</b> , Mahtab Samadi, Wan Aznorin, (2016), Optimization of chlorophyll extraction from Gynura procumbens, Malaysian Journal of Analytical Sciences, 20(6), 1421-1428	2016*
42	Nurul Amziah Md Yunus, Zurina Zainal Abidin, Izhar Abdul Halim (2016). Characterization of Microelectrode Array of Dielectrophoretic Microfluidic Device, Journal of Bioengineering and Biomedical Sciences, 6(3) pp 190. (Cited Scopus)	2016
43	Hussein-Al-Ali, Samer Hasan; Balavandy, Sepideh Keshan; <b>Abidin, Zurina Zainal</b> ; Kura, Aminu Umar; Fakurazi, Sharida; Hussein, Mohd Zobir; Silwadi, Mohammed Fawaz, (2016). The <i>In Vitro</i> Therapeutic Activity of Ellagic Acid-Alginate-Silver Nanoparticles on Breast Cancer Cells (MCF-7) and Normal Fibroblast Cells (3T3), Science of Advanced Materials, 8(3), pp. 545-553 (IF:1.158)	2016
44	<b>Zurina Zainal Abidin</b> , Fatin Nordalila Omar, Dayang Radiah Awang Biak, Yaakob Che Man (2016). Alternative for rapid detection and screening of pork, chicken and beef using dielectric properties in the frequency of 0.5 Ghz-50Ghz, International Journal of Food Properties, 19(5), (IF:1.586).	2016*
45	Noerhidajat, Yunus, R., Zurina, Z.A., Syafiie, S., Ramanaidu, V. Rashid, U. (2016), Effect of high pressurized sterilization on oil palm fruit digestion operation, International Food Research Journal 23(1): 129-134	2016
46	Noerhidajat, Yunus, R., Zurina, Z.A., S. Syafiie and T.S. Chang. (2015). Modeling and Simulation of Heat and Mass Transfer in Oil Palm Fruit Digestion Process, Journal of Emerging Trends in Engineering and Applied Sciences, 6(2): 136-146	2016
47	Daud, N.A. Chieng, B.W., Ibrahim, N.A. Talib, Z.A., Muhammad, E.N., Abidin, Z.Z. (2017) Functionalizing graphene oxide with alkylamine by gamma-ray irradiation method, Nanomaterials, 7 (6), 135 (IF:4.03)	2017
48	Yusufu, A.M. Noor, A.S.M., Tamchek, N., Abidin, Z.Z. (2017). MEH-PPV film thickness influenced fluorescent quenching of tip-coated plastic optical fiber sensors, Optical Fiber Technology, 39, 21-25 (IF:1.82)	2017
49	Hameed Zentou, <b>Zurina Zainal Abidin, Mustapha Zouanti, Darren Greetham, (2017). Effect of Operating</b> Conditions on Molasses fermentation for Bioethanol production, International Journal of Applied Engineering Research, 12 (15): 5202-5206 (Cited Scopus, Q3)	2017*

50	Oday Adnan, <b>Zurina Zainal Abidin</b> , Azni Idris, Suryani Kamarudin, Mothanna Sadiq Al-Qubaisi, (2017). A novel biocoagulant agent from mushroom chitosan as water and wastewater therapy, Environmental Science and Pollution Research (IF: 2.91)	2017*
51	<b>Zurina Zainal Abidin</b> , Norhafizah Madehi, Robiah Yunus, (2017). Coagulative behavior of Jatropha curcas and its performance in wastewater treatment, Environmental Progress and Sustainability, 36(6), 1709-1718 (IF1.631)	2017*
52	Samla Gauri, <b>Zurina Zainal Abidin</b> , Mohd Firdaus Kamuri, Mohd Adzir Mahdi, Nurul Amziah Md Yunus, (2017). Detection of Aeromonas hydrophila Using Fiber Optic Microchannel Sensor. Journal of Sensor, 5, pp1-10 (IF 2.024)	2017*
53	Mahtab Samadi, <b>Zurina Zainal Abidin</b> , Robiah Yunus, Dayang Radiah Awang Biak, Yoshida Hiroyuki, Eng Lai Hok, (2017). Assessing the kinetic model of hydro-distillation and chemical composition of Aquilaria malaccensis leaves essential oil, Chinese Journal of Chemical Engineering, 25, 216-222 (IF1.3)	2017*
54	Mohammed Abdullah and <b>Zurina Z. Abidin</b> . (2018). Coagulation Treatment of Palm Oil Mill Effluent using Plant-based Tannin, Pollution Research, 37 (3), 214-220. (Cited Scopus)	2017*
55	M. Abdul Salam, H. Che Man, Idris, Aida Isma, Abidin, Z.Z., Yunos, K.F. (2018). Treatment of Palm Oil Mill Effluent Using Membrane Bioreactor: Novel Processes and Their Major Drawbacks, Water, 10, 1165. (IF:2.524)	2018
56	M. Abdul Salam, H. Che Man, Idris, Aida Isma, Abidin, Z.Z., Yunos, K.F. (2018). The Pertinence of Microwave Irradiated Coconut Shell Bio-Sorbent for Wastewater Decolourization: Structural Morphology and Adsorption Optimization Using the Response Surface Method (RSM), International Journal of Environmental Research and Public Health, 15, 2200 (IF:2.468)	2018
57	Mohamad Abdullah Issa, <b>Zurina Zainal Abidin</b> , Mohd Adzir Mahdi, Shafreeza Sobri, Suraya A Rashid, Nor Azowa. (2019). Fabrication, characterization and response surface method optimization for quantum efficiency of fluorescent nitrogen-doped carbon dots from carboxymethylcellulose derived from empty fruit bunch of oil palms. Chinese Journal of Chemical Engineering (IF:1.911)	2019*
58	Mohd Radzi Mohd Hafiezal, Abdan Khalina, Zainal Abidin Zurina, Md Deros Mohd Azaman and Zin Mohd Hanafee (2019). Thermal and Flammability Characteristics of Blended Jatropha Bio-Epoxy as Matrix in Carbon Fiber-Reinforced Polymer, J. Compos. Sci. 2019, 3(1), 6;	2019

	doi:10.3390/jcs3010006 (Cited Scopus)	
59	Musa Yahaya Pudza, <b>Zurina Zainal Abidin</b> , Faizah Md Yassin, Suraya Abd. Rashid, Shukri Mohamad. Synthesis and Characterization of fluorescent carbon Dots from tapioca. <i>ChemistrySelect</i> 4 (14), 4140-4146 (IF: 1.716)	2019*
60	Firdaus Kamuri, <b>Zurina Zainal Abidin</b> , Lee Hao Jun, Nurul Amziah, Mohd Haniff Yaacob, Mohd Nizar Hamidon, Suryani Kamarudin (2019). Separation and Detection of Escherichia Coli and Saccharomyces cerevisiae using microfluidic device integrated with optical fiber. <i>Biosensors</i> , 9(1), 40; doi:10.3390/bios9010040 (Cited Scopus)	2019*
61	Firdaus Kamuri, <b>Zurina Zainal Abidin</b> , Lee Hao Jun, Nurul Amziah, Mohd Haniff Yaacob, Mohd Nizar Hamidon, Suryani Kamarudin (2019). Performance evaluation of Free-Space Fibre Optic Detection in a Lab-on-Chip for Microorganism. <i>Journal of Sensors</i> . Article ID 1026905, Volume 2019. (IF: 2.024)	2019*
62	Norhafizah Madehi, <b>Zurina Zainal Abidin</b> , Robiah Yunus (2019). Jatropha Curcas Extract As Green Coagulant Agent to Treat Palm Oil Mill Effluent Wastewater. <i>Journal of Environmental Science and Technology</i> , DOI: 10.3923/jest.2019 (Cited Scopus)	2019*
63	Aishah Derahman, <b>Zurina Z Abidin</b> , Francisco Cardona, Dayang Radiah Awang Biak, Khalina Abdan, Paridah Md Tahir, Liew Kan Ern (2019). Epoxidation of Jatropha Methyl Esters via Acidic Ion Exchange Resin: Optimization and Characterization. <i>Brazilian Journal of Chemical Engineering</i> . 36, 2, 959-968. (IF:0.79)	2019*
64	Abdul Latif, F.E., <b>Zurina Z. Abidin</b> , F. Cardona, D. R. Awang Biak, P.Md Tahir, K. Abdan, Kan E. Liew, (2019). Epoxidized Jatropha Oil Blended with amine-cured epoxy resins as a hybrid bio-matrix in the bio-composite system. <i>Journal of Engineering Science and Technology (JESTEC)</i> , 14(2), 1071-1087. (Cited Scopus).	2019*
65	Zentou Hameed, <b>Zurina Zainal Abidin</b> , Robiah Yunus, D.R. Awang Biak, Mustapha Zouanti, Abdelkader Hassani. (2019). Modelling of molasses fermentation for bioethanol production: a comparative investigation of Monod, and Andrews models accuracy assessment, <i>Biomolecule</i> . 9, 308. (IF:4.69)	2019*
66	Zentou Hameed, <b>Zurina Zainal Abidin</b> , Robiah Yunus, D.R. Awang Biak, Danil Korelsky (2019). Overview of alternative techniques for recovery of bioethanol in fermentation broth, <i>Processes</i> . <b>2019</b> , 7(7), 458; <a href="https://doi.org/10.3390/pr7070458">https://doi.org/10.3390/pr7070458</a> , (IF1.963)	2019*
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3	<b>Zurina Z. Abidin</b> and Markx, G.H. (2002). Modelling of the movement of cells in dielectrophoretic separation system, Malaysian Research Group Conference, Manchester, UK.	2002
4	Yunus, Z., <b>Abidin, Z.</b> & Markx, G.H. (2004) Separation of micro-organisms in an interdigitated dielectrophoretic Field-Flow Fractionation device. The Eight World Congress on Biosensors, Granada, Spain.	2004

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25	Dielectrophoretic Separation and Sensor Applications (2011), Seminar on Sensor Technology and Applications, Universiti Putra Malaysia.	2011 (Invited Speaker)
26	<b>Zurina Zainal Abidin</b> , Mohd Fadzli Mohamed, Abdul Ghani Liew Abdullah (2012). Alternative Use of Rambutan ( <i>Nephelium Lappaceum</i> ) Seed as Biocoagulant for Water Treatment, 2 <sup>nd</sup> International Conference on Process Engineering and Advanced Materials, 12-14 June 2012, KLCC, Kuala Lumpur	2012
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32	Bioremediation in water and wastewater treatment (2017), Kazakh National Technical University Visit Seminar.	2013 (Invited Speaker)
33	Zurina Zainal Abidin. Dielectrophoresis and its application, Invited Speaker, Fatih Universitesi, Büyükçekmece, Istanbul, Turkey	2014 (Invited Speaker)
34	<b>Zurina Zainal Abidin</b> , Wan Aznorin, Mahtab Samadi, (2015). Optimization of Chlorophyll Extraction from Gynura Procumbens, 28 <sup>th</sup> Symposium of Malaysian Chemical Engineers 2015, Palm Garden Hotel Putrajaya, 21-22 October 2015.	2015
35	Firdaus Kamuri, <b>Zurina Zainal Abidin</b> , Zalikha Zukhi, N.A. Yunus, M.N.Hamidon, M.Haniff, S. Kamaruddin, International Conference on Smart Sensor and Applications 2015.	2015
36	Zurina Zainal Abidin, Dielectrophoresis and its application, ITMA Seminar	2015 (Invited Speaker)
37	Yusufu, A.M. Noor, A.S.M., Azami, H.N.M., Tamchek, N., Abidin, Z.Z. (2016). Dinitrobenzene sensing utilization chitosan-based thin films optical fluorescence sensors via linear and non-linear excitation, Proceedings of the 9 <sup>th</sup> International Conference on Sensing Technology, ICST.	2016
38	Sivaraj, L. Yunus, N.A.M., Mohktar, M.N., Aziz, S.A. Abidin, Z.Z., Saripan, M.I., Rokhani, F.Z. (2016). Portable biosensor for chronic malaria detection, Proceedings 17 <sup>th</sup> International Symposium on Quality Electronic Design, ISQED, United States, May 2016, 248-251	2016
39	<b>Zurina Zainal Abidin</b> , Samla Gauri Mohd Adzir Mahdi, (2016). Pathogens detection by fiber optic microfluidic biosensor, 10 <sup>th</sup> Asia Pacific Biotechnology Congress, July 25-27, 2016 Bangkok, Thailand	2016 (Invited Speaker)
40	<b>Zurina Zainal Abidin</b> (2016). Biocoagulation from Jatropha Curcas and its application in Water Treatment, (2016). Workshop of Biotechnology of Biomass Utilization for ASEAN Development	2016 (Invited Speaker)

41	<b>Zurina Zainal Abidin</b> (2016). Dielectrophoretic Separation of Microorganism combined with optical detection in an integrated systems, Ho Chi Minh University of Technology Seminar, Vietnam.	2017 (Invited Speaker)
42	<b>Zurina Zainal Abidin</b> , Faizah Md Yassin, Mohd Razif Harun, Mohd Yusof Harun, Halimahtun Sakdiah Zainuddin, Mohamed Rezi Abdul Halim, Mohd Amran Mohd Salleh, (2017). Video as E-learning approach for enhancing laboratory teaching in biochemical engineering- a 22alaysia case study, 7 <sup>th</sup> World Engineering Education Forum (WEEF), August 2017, Kuala Lumpur, Malaysia	2017
43	<b>Zurina Zainal Abidin</b> , Fatin Nordalila Omar, Dayang Radiah Awang Biak (2017). Effects of heating time and temperature to the dielectric properties of pork and chicken in the range of 0.5 – 50 GHz, International Food Research Conference, Serdang, Malaysia.25-27 July 2017.	2017
44	Hafiezal, M.R.M., Abdan, K., Azaman, M.D., Abidin, Z., Hanafee, Z.M. (2017), Initial study of new bio-based epoxy in carbon fiber reinforced composite panel manufactured by vacuum assisted resin transfer moulding, AIP Conference Proceeding, 3 <sup>rd</sup> Electronic and Green Materials International Conference, April 2017, Krabi, 1885, 020066	2017
45	Lab – on – chip: Dielectrophoretic Separation combined with optical Sensor, Cheng De University Visit Seminar.	2018, 2019 (Invited Speaker)
46	Liew Mung Ngar, <b>Zurina Zainal Abidin</b> , Nuramirah Ab Halim (2018). Detection of Chemicals using Fiber Optic Sensor, 31 <sup>st</sup> Symposium of Malaysian Chemical Engineers (SomChe 2018), Disember 2018, Hotel Istana, Kuala Lumpur	2018
47	Wong Mei Lin, <b>Zurina Zainal Abidin</b> and Nurhaninah Harun (2018). Optimization of Solid Liquid Extraction of Anthocyanin extraction from <i>Gynura Procumbens</i> , 31 <sup>st</sup> Symposium of Malaysian Chemical Engineers (SomChe 2018), Disember 2018, Hotel Istana, Kuala Lumpur	2018
48	<b>Zurina Zainal Abidin</b> , Norhasni Zahari and Siti Noradzah Adam (2018). Stem Based Activities as Alternative Teaching and Learning Assessment for Teamwork, Putralnnocreative Carnival of Teaching and Learning (PICTL 2018), Universiti Putra Malaysia.	2018
49	Wong Mei Lin, Nurhaninah Harun, <b>Zurina Zainal Abidin</b> (2018). Kinetic Modelling of Anthocyanin extraction from <i>Gynura Procumbens</i> ,	2018

	International Conference on Applied Science and Industrial Technology 2018 (ICASIT 2018), Swiss Garden, Malacca.	
50	Fadhilla Mohd Nadzri, <b>Z.Z. Abidin</b> and Jamil Mohd Salleh. (2018). Effects of wire diameter, yarns size and wire configuration to wire cloth electrode produced from textile technology for dielectrophoresis application. 3 <sup>rd</sup> International Conference on Process Engineering and Advanced Material (ICPEAM 2018), KLCC, Kuala Lumpur	2018
51	M R M Hafiezal, <b>A Khalina</b> , Z A Zurina, M D Azaman and Z M Hanafee (2018). Physical characterization of carbon fiber reinforced composite with blended epoxidized Jatropha oil (EJO) resin. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 368, No. 1, p. 012003). IOP Publishing.	2018
52	Fadhilla Mohd Nadzri, <b>Z.Z. Abidin</b> and Jamil Mohd Salleh. (2019). 3D Wire Cloth Electrode for Higher throughput dielectrophoretic separation of bacterial cell. 20 <sup>th</sup> World Conference on Applied Science, Engineering and Technology (WCASET 2019), Holiday Inn, Kuala Lumpur	2019
53	Zurina Zainal Abidin (2019). <i>“To draw or not to draw: A Low Cost Experiential Learning for Enhancing Constructive Analytical Skills in Engineering Drawing Among Students., PutraInnocreative Carnival for teaching and learning (PICTL 2019). Dewan Besar PKSSA, UPM. Malaysia, 16-17 October 2019.</i>	2019
54	Zurina Zainal Abidin, Mohd Yusof Harun, Mohd Razif Harun, Faizah Md Yassin, Halimah Sakdiah Zainudin, Mohamed Rezi, M2V – An E-Coaching Tool for effective teaching and learning of Biochemical Engineering Laboratory course, PutraInnocreative Carnival for teaching and learning (PICTL 2019). Dewan Besar PKSSA, UPM. Malaysia 16-17 October 2019	2019
55	Dayang Radiah Awang Biak, Rozita Omar, Nur Syakina Jamali, Mohd Syazaruddin Md Said, Shafreeza Sobri, Zurina Zainal Abidin, Wan Azlina Wan Abdul Karim Ghani, Mohd Hamdan Yusof, Mohd Halim Shah Ismail, Shamsul Izhar Siajam, Creating Experiential Learning via systematic integrated design approach. PutraInnocreative Carnival for teaching and learning (PICTL 2019). Dewan Besar PKSSA, UPM. Malaysia 16-17 October 2019,	2019
56	Liew Mung Ngar, <b>Zurina Zainal Abidin</b> (2019). Detection of Chemicals using Fiber Optic Sensor, 2 <sup>nd</sup> International Research Conference and	2019

	Innovation Exhibition 2019. KSL Resort, Johor Bahru, 25-27 November 2019	
57	Dayang Radiah Awang Biak, Rozita Omar, Nur Syakina Jamali, Mohd Syazaruddin Md Said, Shafreeza Sobri, Zurina Zainal Abidin, Wan Azlina Wan Abdul Karim Ghani, Mohd Hamdan Yusof, Mohd Halim Shah Ismail, Shamsul Izhar Siajam, Creating Experiential Learning via systematic integrated design approach. <i>PutraInnocreative Carnival for teaching and learning (PICTL 2019. Dewan Besar PKSSA, UPM, 16-17 October 2019.</i>  Pertandingan Amalan Inovasi dalam Pengajaran dan Pembelajaran 2019, <b>Wakil Fakulti Kejuruteraan Kategori Amalan Fakulti Terbaik</b>	2019
58	Zurina Zainal Abidin (2019). <i>“To draw or not to draw: A Low Cost Experiential Learning for Enhancing Constructive Analytical Skills in Engineering Drawing Among Students., PutraInnocreative Carnival for teaching and learning (PICTL 2019).</i> Pertandingan Amalan Inovasi dalam Pengajaran dan Pembelajaran 2019, <i>Dewan Besar PKSSA, UPM. Malaysia 16-17 October 2019,</i>  <b>Wakil Fakulti Kejuruteraan Kategori Alternative Assessment Terbaik</b>	2019
59	Pameran Projek Komuniti Terbaik, UPM JINM SHOWCASE 2019, Maybank Academy Urban Farming Skilling, 10 April 2019, UCTC, UPM	2019
60	Nuruldiyana, K., Dayang Radiah, A.B., Zurina Z.A., Cardona, F., Sapuan, S.M. (2020). Synthesis of Phenol Formaldehyde Resin with Paraformaldehyde and Formalin, IOP Conference Series Materials Science and Engineering, 778: 012024.	2020
60	Webinar Department Academic Sharing: Development of Online Tool Assessment, Department of Chemical and Environmental Engineering, UPM	2020 (Invited Speaker)
61	Webinar Department Academic Sharing: The use of Microsoft Teams-hands on, Department of Chemical and Environmental Engineering, UPM	2020 (Invited Speaker)
62	Webinar “Bioseparation and Biosensors: Bridging Gaps for Sustainable Advancement”, Organized by Chemical Engineering Student Society, 29 September 2020.	2020 (Invited Spaker)
63	Zurina Zainal Abidin and Nik Nor Liyana Nik Ibrahim, “3 in 1 PID MAZE:	2020

	Face to face immersive learning through challenge based learning in flipped classroom”, Putralnnocreative Carnival for teaching and learning (PICTL 2020). Online, 26-30 October 2020.	
64	Musa’ab Abdul Razak and Zurina Zainal Abidin. Comprehensive student competencies assessment for engineering drawing course with real time on-site evaluation, Putralnnocreative Carnival for teaching and learning (PICTL 2020). Online, 26-30 October 2020.	2020
65	Nik Nor Liyana and Zurina Zainal Abidin. Hens hunt: a face to face immersive learning experience through challenge- based learning, Putralnnocreative Carnival for teaching and learning (PICTL 2020). Online, 26-30 October 2020.	2020
66	Harnessing Sustainable Bioresources for Environmental Applications, International Bioprocessing Association Subject Conference 2021, Online, 4-5 August 2021	2021 (Invited Speaker)
67	Aishah Derahman and Zurina Zainal Abidin, Mechanical properties of bio-epoxy resin and synthetic epoxy resin blends, IOP Conference Series Materials Science and Engineering Proceedings, 1176(1):012005 (August 2021)	2021
68	Nurhaninah harun, Zurina Zainal Abidin, Mohammed Rezi Abdul Hamid, Mohd Yusof Harun, Abdul Halim Abdullah, Rizafizah Othaman, A comparative studies between various vegetable oil-based polyurethane membrane, Proceeding of 14 <sup>th</sup> Regional Conference in Chemical Engineering and Ist ICICET 2021, Online, 30 November – 1 <sup>st</sup> December 2021	2021
69	Zentou Hamid, Zurina Zainal Abidin, Mohammed Abdullah Issa, Musa Yahaya Pudza, Modelling of Mass Transfer During the Pervaporation of Ethanol/Water Mixture Using PolydimethylsiloxaneMembrane, Proceeding of 14 <sup>th</sup> Regional Conference in Chemical Engineering and Ist ICICET 2021, Online, 30 November – 1 <sup>st</sup> December 2021	2021
70	Mohammed Abdullah Issa, Zurina Zainal Abidin, Zentou Hamid, Musa Yahaya Pudza, 14 <sup>th</sup> Regional Conference in Chemical Engineering and Ist ICICET 2021, Turning Carboxymethylcellulose of Empty Fruit Bunch into Sustainable Fluorescent Carbon Dots”, Proceeding of 14 <sup>th</sup> Regional Conference in Chemical Engineering and Ist ICICET 2021, Online, 30 November – 1 <sup>st</sup> December 2021	2021

71	Student Supervision Sharing with Manipal International University Staff, Online, 14 <sup>th</sup> March 2022, Invited Speaker	2022
72	Idrus, N., R. Yunus, Abidin, Z.Z. Steric hindrance effect on miscibility and properties of palm oil derived pentaerythritol ester lubricants, Materials Today: Proceedings, 63, S10-S21	2022
73	Mathematical Modelling of Subcritical Extraction of Essential Oil from Aquilaria Malacensis, 2 <sup>nd</sup> International Conference on Innovation in Chemical Engineering and Technology (ICICET 2023), 4-5 September, Kuala Lumpur.	2023
74	Chemical Engineering, Are you up to the Challenge, Engineering Seminar, 23 October 2023	Invited Talk 2023
75	Amalan Terbaik Pengajaran, Anjuran TDA Fakulti Kejuruteraan, 26 September 2023	Invited Talk 2023
76	Zurina Zainal Abidin, Nik Nor Liyana Nik Ibrahim and Halimahtun Sakdiah Zainudin, Experiment based Assessment Via Collaborative Pairing to Enhance Student Learning Outcome, PutraInnoCreative Carnival for teaching and learning (PICTL 2023). Online, 14-16 November 2023.	2023
77	Biobased Membrane from Jatropha Oil for Filtration Applications, Silver Medal, Engineering Innovation and Exhibition 2023, 25 July 2023	2023
78	Isolation and Purification of Trehalulose from Stingless Bee Honey by Ion Exchange Adsorption, Bronze Medal, Final Year Project Exhibition, 17-18 July 2023.	2023
79	Amalan Pengajaran Terbaik bersempena Persidangan STEM, Anjuran Jabatan Pendidikan Wilayah Persekutuan dan Fakulti Kejuruteraan, 26 Oktober 2023.	2023 (Invited Talk)
80		

PUBLICATIONS-BOOKS/CHAPTER		
NO	TITLE	YEAR
1	<b>Zurina Zainal Abidin</b> , Dayang Radiah Awang Biak, Hamdan Mohamed	2013

	Yusof, Mohd Yusof Harun, Solid Liquid Extraction in Biorefinery, Separation Technology in Biorefinery Edition, Wiley. Mac 2013.	
2	Wai York Chow, Norhafizah Hafifudin, <b>Zurina Zainal Abidin</b> , Fakhru'l-Razi Ahmadun. (2013) Construction of ASMC by Dielectrophoresis Using Wirecloth Electrode for the Treatment of Wastewater, in "Developments in Sustainable Chemical and Bioprocess Technology", Ravindra, P., Bono, Awang, Chu, Christopher (Eds.), ISBN 978-1-4614-6208-8.	2013
3	Robiah Yunus, Rozita Omar, Zurina Zainal Abidin and Dayang Radiah Awang Biak, Oil Palm as Bioenergy Feedstock, in Palm Oil: Production, Processing, Characterization and Uses, AOCS Press. April 2012	2012
4	Dayang Radiah Awang Biak, Dayang Radiah Awang Biak, Rozita Omar, Nur Syakina Jamali, Mohd Syazaruddin Md Said, Shafreeza Sobri, Zurina Zainal Abidin, Wan Azlina Wan Abdul Karim Ghani, Mohd Hamdan Yusof, Mohd Halim Shah Ismail, Shamsul Izhar Siajam, Using Systematic Integrated Design To Scaffold Capstone Project In Chemical Engineering, Higher Institutional Education Practices (HIEP)	2020
5	Musa Yahaya Pudza, Zurina Zainal Abidin, Chapter 5: Synthesis and Applications of Organic based Fluorescents Carbon Dots: Technical Review in book titled "Novel Nanomaterials" edited by Karthikeyan Krishnamoorthy, InTech Open Publications, London, United Kingdom, pp85, <a href="http://dx.doi.org/10.5772/intechopen.91600">http://dx.doi.org/10.5772/intechopen.91600</a>	2021
6.	Mohammed Abdulsalam, Hasfalina Che Man, Pei Sean Goh, Khairul Faezah Yunos, Zurina Zainal Abidin, Aida Isma M. I and Ahmad Fauzi Ismail. Permeability And Antifouling Augmentation Of A Hybrid PvdF-Peg Membrane Using Nano-Magnesium Oxide As A Powerful Mediator For Pome Decolorization in Current Trends and Perspectives in the Application of Polymeric Materials for Wastewater Treatment, edited by Marta Otero and Ricardo N. Coimbra, MDPI publisher, Switzerland, p5-26, <a href="https://doi.org/10.3390/books978-3-0365-2371-2">https://doi.org/10.3390/books978-3-0365-2371-2</a>	2021
7	Zurina Zainal Abidin, Musa Yahaya Pudza, Mohamad Abdullah Issa, Zentou Hamid, Nurhaninah Harun, Noor Amirah Abdul Halim, Chapter 21:Sustainable applications of carbon dots-based composites as photocatalyst for environmental pollutant remediation, chapter in book titled "Novel Materials for Environmental Remediation Applications" edited by Dimitrios Giannakoudakis, Lucas Meili, Ioannis Anastopoulos, Elsevier New York, USA Publisher. <a href="https://www.elsevier.com/books/novel-materials-for-environmental-remediation-applications/giannakoudakis/978-0-323-91894-7">https://www.elsevier.com/books/novel-materials-for-environmental-remediation-applications/giannakoudakis/978-0-323-91894-7</a>	2022

8	Zurina Zainal Abidin, Book Chapter “Disisiku ada pelajar” in “Menara Akademik: Gading Mana Yang Tak Retak”, Edited by Syamimi Saadon, Zilal Saari, Umi Kalthum Ngah. Persatuan Akademia IKRAM Malaysia	2022
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PUBLICATIONS-PATENTS/COPYRIGHT			
No	TITLE	TYPE	YEAR
1	Coagulant Agent for Water Treatment, Patent Pending, Patent Number 2011700007	PATENT PENDING	2012
2	Alternative technique using Dielectric Properties for Halal and Non-Halal Identification	COPYRIGHT	2017
3	Video as e-learning teaching tool for laboratory teaching for Sterilization Process in Biochemical Engineering	COPYRIGHT	2017
4	Video as e-learning teaching tool for laboratory teaching for Bioreactor in Biochemical Engineering	COPYRIGHT	2017
5	A Hybrid System & Method For Treating Palm Oil Mill Effluent PI 2019006570	PATENT PENDING	2020
6	Operating and Maintenance Manual for Hybrid Aerobic-Sorbent-Membrane Application	COPYRIGHT	2020

RESEARCH GRANTS					
PROJECT NO.	PROJECT TITLE	ROLE	YEAR	SOURCE OF FUND/AMOUNT	STATUS
GP-IPS/2023/9768800	Isolation and Purification of Rare Sugar Trehalulose from Stingless Bee Honey by Ion Exchange Adsorption	Project Leader	2023-2025	UPM, Geran Putra, UPM, (RM20K)	On-going
FRGS/1/2023/TK05/UNIMAP/02/10	Parametric Studies and Mathematical Modeling of Oleoresin Isolation from Syzygium aromaticum via Subcritical Water Extraction	Project Member	2023-2025	KPT, FRGS, (RM93K)	On-going
FRGS/1/2021/STG01/QUEST/03/1	Elucidation on the dissolution behaviour between chitosan-Ionic liquids complex supported on SiO <sub>2</sub> for heavy metal extractions	Project Member	2021-2023	KPT, FRGS, (RM89K)	On-going
FRGS/1/2020/TKO/UPM/02/38	Elucidation of Microscopic Behavior of Jatropha Oil Biobased Membrane incorporated with	Project Leader	2020 – 2023	KPT, FRGS, (RM115 K)	Completed

	Carbon Dots				
9300427	Development of Bioresin from local Bioresources for Aerospace Applications	Project Leader	2015-2018	UPM, Matching Grant (RM144K)	Completed
GPS-IPS/2017/9556800	Sustainable synthesis of fluorescent nitrogen doped carbon dots from oil palm empty fruit bunch for selective detection of heavy metals in contaminated water	Project Leader	2017-2020	UPM, GP-IPS (RM20K)	Completed
GPS-IPS/2016/9502500	Effective production and recovery of bioethanol via integrated pervaporation membrane reactor	Project Leader	2016-2018	UPM, GP-IPS (RM15K)	Completed
9323654	The use of virtual laboratory demonstrations to enhance laboratory teaching for undergraduate	Project Leader	2015-2017	GIPP, UPM, RM10K	Completed
UPM/700-1/2/GPPI/2017/9531400	Using subcritical water extraction for gaharu oil extraction	Project leader	2017-2019	Putra Grant	Completed
	Development of Bioresin from local Bioresources for Aerospace Applications	Project Leader	2015-2019	Industry Grant, Aerospace Manufacturing Innovation Centre (AMIC) RM244K	Completed
03-02-13-1287FR	Bioethanol Production modeling of Chaotic Behaviour	Project Leader	2013-2015	FRGS-MOHE	Completed
03-02-13-1292FR	Identification of the bioactive coagulant compound in <i>Jatropha curcas</i>	Project Leader	2013-2015	FRGS-MOHE (RM155K)	Completed
02-01-04-SF1214	Pulsed Field DEP-FFF Integrated with optical detection on a biochip for biological applications	Project Leader	2012-2014	Escience Fund (RM305K)	Completed
05-05-10-1079RU	Identification and Discrimination of Halal and Non-halal products by dielectric properties	Project Leader	2010-2012	RUGS, UPM, (RM155K)	Completed
01-03-04-SF0842	Construction of artificial consortia of microorganism using dielectrophoresis for wastewater	Project leader	2007-2009	MOSTI, (RM231K)	Completed

	treatment				
01-03-04-SF0841	Large Scale dielectrophoretic separation of microorganism using wire electrode by dielectrophoresis	Project leader	2007-2010	MOSTI (RM215K)	Completed
Skim Pensyarah Lantikan Baru (PLB)	Dielectrophoretic Separation of Cells using Microelectrodes	Project leader	2007-2008	UPM (RM10K)	Completed
	Identification of Potential and Effective Natural Coagulant for Malaysian Water Treatment Plant	Project Member	2010-2011	Industry Grant, Puncak Research Center (RM 100K)	Completed
	Selective Deposition and Mechanism of Growth Study of CNP on a substrate via FC-CVD Technique	Member	2007-2009	RUGS, UPM, RM 50 K	Completed
	Bioremediation and treatment of oilfield produced water with combined biological and nano-filtration processes,	Member	2007-2009	RUGS, UPM, RM 100 K	Completed
	Synthesis of Bacterial cellulose by Bacterial Fermentation	Member	2007-2009	Escience Fund, RM 249 K	Completed
	Electrodynamics droplets actuation for lab on a chip system	Member	2014-2015	Geran Putra Berprestasi tinggi, RM 135K	Completed
	Development of a Food-Grade Green Lubricants	Member	2012-2014	Escience Fund, RM 211 K	Completed
	Development of continuous pulsed loop reactor for Synthesis of ester-based biodegradable fluid,	Member	2011-2013	ERGS, RM100K	Completed
	An Integrated Biorefinery for Bioenergy Production from Jatropha Seeds,	Member	2011-2013	PRGS, RM 200K	Completed
PRGS/1/2014/ST05 /UPM/02/1	Upscaling of Synthesis Process for the Production of High Quality Graphene Oxide,	Member	2014-2016	PRGS, RM221 K	Completed
FRGS/2/2014/SG06 /UPM/02/3	Hylocereus Undatus Extract as a Novel Green Inhibitor for Mild	Member	2014-2017	FRGS, RM109 K	Completed

	Steel Acid Corrosion				
5450829	Development of trehalulose sugar with low glycemic index and high antioxidant activities as pure analytical standard and marker of high-quality stingless bee honey	Member	2021-2023	E-DANA International Collaboration Fund, MOSTI, RM447,500	On-going
FRGS/1/2021/STGO1/QUEST/03/1	Elucidation on the dissolution behaviour between chitosan-Ionic liquids complex supported on SiO <sub>2</sub> for heavy metal extractions	Member	2021-20-2023	FRGS, RM 89 K	On-going

AWARDS AND RECOGNITION					
NO	NAME OF AWARDS	TITLE	AWARD AUTHORITY	AWARD TYPE	YEAR
1.	Gold Medal	Construction of Biofilm using dielectrophoresis	PRPI, UPM	National	2009
2.	Silver Medal	Ultrasound Assisted Solid Liquid Extraction of Jatropha Oil	PRPI, UPM	National	2010
3.	Silver Medal	Construction of Structured Biofilm using wire cloth electrode from textile technology by Dielectrophoresis	Malaysia Technology Exhibition	National	2010
4.	Silver Medal	Ultrasound Assisted Extraction of Jatropha Oil	Malaysia Technology Exhibition	National	2010
5.	Gold Medal	Large Scale Dielectrophoretic Separation of Cells using textile wire cloth electrode	PRPI, UPM	University	2010
6.	Silver Medal	Jatropha Curcas as potential biocoagulant for wastewater treatment	PRPI, UPM	University	2011
7.	Bronze Medal	Ultrasound Assisted Solid Liquid Extraction of Jatropha Oil	PECIPTA	National	2011

8.	Excellent	Excellent Yearly Service Award	UPM	University	2007, 2012, 2015
9.	Gold Medal	Identification and discrimination of halal and non halal using dielectric properties	PRPI. UPM	University	2014
10.	Silver Medal	Biosorption using low cost waste dragon fruit foliage.	PRPI, UPM	University	2014
11	Aunseed Grant Mobility Award	Visit to Ho Chi Minh University of Technology	Aunseed, RM 5000	International	2016
12	Excellent	Excellent Teaching Award	UPM	University	2007-2022
13	Double Gold Medal	Enhanced Jatropha Biomatrix in improving smoke fire toxicity characteristics for aerospace panel structure	Bron	National	2017
14	Anugerah PIA Faculty of Engineering	Anugerah Perkhidmatan Profesional Terbaik Fakulti Kejuruteraan	UPM	Faculty	2017
15	Bronze Medal	STEM BASED Activities for Alternative Team work Assessment	PICTL 2018	National	2018
16	High Impact Community Project Award	Projek Global I Lead STEM Camp 2017	ICAN	Universiti	2018
16	Gold Medal	Junior STEM Chef: A Teaching Innovation Module to Enhance STEM Learning Process Among Murid Orang Asli	MTE2019 Teaching Award	International	2019
17	High Impact Community Project Award	Projek Maybank Urban Farming Skilling	ICAN	Universiti	2019
18	Silver Medal	Mentor-Mentee in Research Innovation Skills Through Global I-Lead STEM Camp	MTE2019 Mentor Mentee Award	International	2019

19	High Impact Industry Project Award	Projek Development of Bioresin from Bioresources for Aerospace Application	ICAN	Universiti	2019
20	High Impact Community Project Award	Program Pengukuhan STEM dikalangan Murid Orang Asli (STEM-MOA)	ICAN	Universiti	2019
21	Gold Medal	Junior STEM Chef	Pertandingan Rekacipta Inovasi Nasional, Kejuruteraan dan Alam Bina	National	2019
22	Silver Medal	E-Learning untuk M2V: An E-Coaching Tool for effective teaching and learning of Biochemical Engineering Laboratory course	PICTL 2019, UPM	International	2019
23	Silver Medal	Experiential Based Learning untuk <i>"To draw or not to draw: A Low Cost Experiential Learning for Enhancing Constructive Analytical Skills in Engineering Drawing Among Students"</i>	PICTL 2019, UPM	International	2019
24	Silver Medal	Experiential Learning untuk <i>"Creating Experiential Learning via systematic integrated design approach"</i>	PICTL 2019, UPM	International	2019
25	Silver Medal	Development of Ohmic Heating Hydrodistillation for Citronella Oil Extraction	5 <sup>th</sup> SouthEast Asian Agricultural Engineering Students Chapter Annual Regional Convention	International	2019
26	Excellent	Excellent Service Award	UPM	Universiti	2007, 2012, 2015, 2019
27	Gold Medal	3 in 1 PID MAZE: Face to face immersive learning through challenge-based learning in flipped classroom	PICTL 2020, UPM	International	2020
28	Gold Medal	Comprehensive student competencies assessment for	PICTL 2020, UPM	International	2020

		engineering drawing course with real time on-site evaluation			
29	Gold Medal	Hens hunt: a face to face immersive learning experience through challenge- based learning	PICTL 2020, UPM	International	2020
30	Vice Chancellor Fellowship Award, 2021	Winner for Category Excellent Teacher for Engineering Cluster	AFNC 2021, UPM	Universiti	2022
31	National Academic Award	Candidate for Category Excellent Teacher for Engineering Cluster, Representing UPM	AAN 2022	National	2023
32	Silver Medal	Biobased Membrane from Jatropha Oil for Filtration Applications	Engineering Innovation and Exhibition, FK, UPM	Faculty	2023
33	Gold Medal	Experiment based Assessment Via Collaborative Pairing to Enhance Student Learning Outcome	PutraInnocreative Carnival for teaching and learning (PICTL 2023)	International	2023
34	Bronze Medal	Isolation and Purification of Trehalulose from Stingless Bee Honey by Ion Exchange Adsorption	Final Year Project Exhibition	Faculty	2023

SUPERVISION – PHD				
NO.	NAME	ROLE	TITLE	STATUS
1.	Mahtab Samadi (GS32023)	Main	Subcritical water extraction of essential oil from gaharu	Graduated
2.	Mohd Firdaus Kamuri (GS35179)	Main	Pulsed Field DEP separation of cell combined with optical detection for cells	Graduated
3.	Zentou Hameed	Main	Modelling and Production of Bioethanol using pervaporated membrane bioreactor	Graduated
4.	Nurhazwani Ismail	Main	Production of powdered jatropha curcas coagulant extract for industrial applications	Ongoing
5	Mohammed Issa Abdullah	Main	Synthesis of C-Dot for heavy metal detection sensor application from cellulose	Graduated
6	Musa Yahya Pudza	Main	Synthesis of C-Dot for heavy metal detection sensor application from tapioca	Graduated
7	Noor Amirah Abd Halim	Main	Extraction of Phenolic Compound By Subcritical Water	Graduated

8	Nur Haninah Harun	Main	Membrane Fabrication and characterization using Jatropha polyol	Graduated
9	Laith Hamzah Thuaban	Main	Biological Treatment of Wastewater using Novel Biocarrier	Ongoing
10	Lyu Shiqi	Main	Inverse Vulcanization of polysulfides from vegetable oil for environmental remediation	Ongoing
11	Soh Ming Lun	Main	Vegetable oil based insulating oil media for transformer application	Ongoing
12	Zhang Fan	Main	MOF-CDs Biopolymer for environmental remediaton	Ongoing
13	Oliver Zeng FanCheng	Main	Vegetable oil based biobased membrane decorated with nanoparticles for environmental remediation	Ongoing
14	AliReza Pendashteh	Co	Bioremediation and treatment of oilfield produced water with combined biological and nano-filtration processes	Graduated
15	Herliati	Co	Theoretical Modelling of Pretreatment Methods for Potential Lignocellulosic Biomass Resources for Bioethanol Production in Malaysia	Graduated
16	Mazyar Peyda	Co	Photocatalytic degradation of endocrine disrupting compounds with nano titanium oxide	Graduated
17	Nasrin Khodapanah	Co	Evaluation of turbidity removal by natural coagulant indigenous to malaysia	Graduated
18	Zaini Yaakub	Co	Development of palm oil and its derivative as membrane biobased dielectric fluids for distribution and power transformer	Graduated
19	Soheil Yahyapour	Co	Water Resource Management	Graduated
20	Nor Faeqah Idrus	Co	Synthesis of pentataethritol ester lubricant using Palm oil mesthyl ester via transesterrification	Graduated
21	Abdullah Magaji Yusufu	Co	Fluorescence Quenching of Optical Fiber Chemical Sensor Detecting Hazardous Dinitrobenzene Material	Graduated
22	Ahmed Rufai Dahiru	Co	Design and Development of a Pilot Scale Solar Photo-Fenton Oxidative Recalcitrant Wastewater Depuration Plant	Graduated
23	Mohd Hafiezal Mohd Radzi	Co	Performance Evaluation of Composite Panel by using Biobased Resin derived from plant as matrices	Graduated

24	Abdulssalam Mohamad	Co	Treatment and decolorization of POME using combination of baffled aeration and 36membrane bioreactor	Graduated
25	Nuruldiyanah binti Kamarudin	Co	Tannin phenol Resin from bioresources	Graduated
26	Redzuan bin Mohammad Suffian James	Co	Production of Polyol using Liquefaction method for coating applications	Graduated
27	Arif Zaidi bin Jusoh	Co	Isolation of trehalulose from stingless bees honey using ion exchange adsorption	On going
28	Alfutini Fatima Hussein Mohammed Taha	Co	Subcritical extraction of propolis from stingless beed honey	On going
29				
30				

SUPERVISION – MASTER				
NO.	NAME	ROLE	TITLE	STATUS
1.	Sepidar Sayyar (GS18331)	Main	Extraction of Jatropha oil from seeds	Graduated
2.	Fadhilla Hasanah Mohd Nadzri (GS23331)	Main	Large Scale Dielectrophoretic Separation of Cells	Graduated
3.	Zahra Haddadian (GS29396)	Main	Removal of colour from dragon fruit foliage	Graduated
4.	Norhafizah Madehi (GS26209)	Main	Jatropha Curcas as potential biocoagulant for wastewater treatment	Graduated
5.	Fatin Nordalila Omar (GS26208)	Main	Dielectric properties as potential rapid on site detection for halal and non halal products	Graduated
6.	Wai York Chow (GS30957)	Main	Constructed Biofilm for wastewater treatment	Graduated
7.	Sepideh Balavandy Keshavan (GS31693)	Main	Silver nanoparticles in sodium alginate and glutahionie as green chemistry approach	Graduated
8.	Samla Gauri (GS35873)	Main	Optical fiber detection of Microbes	Graduated
9.	Wong Mei Lin (GS37182)	Main	Extaction of bioactive products from sambung nyawa	Graduated
10.	Nurhaninah Harun	Main	Membrane Fabrication and characterization using Jatropha polyol	Graduated
11.	Aishah Derahman	Main	The production of bioresin from methyl ester	Graduated
12.	Farah Ezzah	Main	Production of Bioresin from jatropha oil	Graduated
13.	Oday Adnan	Main	Chitosan as biocoagulant for wastewater treatment	Graduated
14.	Umar Adam Majid	Main	Jatropha Oil membrane with carbon dots for	Graduated

			heavy metal removal	
15	Hairul Mohamad Ridzwan	Main	Isolation and separation of trehalulose from stingless bees honey by ion exchange adsorption	Ongoing
16	Mahmoud Rasheed Atiah	Co	Selective Deposition and Mechanism of Growth Study of CNP on a substrate via FC-CVD Technique	Graduated
17	Nor Saiful Hafiz Abdul Habib	Co	Production of vegetable based drilling fluid	Graduated
18	Mohd Hazwan	Co	Gaharu oil extraction by ohmic heating hydrodistillation	Graduated
19	Mohd Yusof Harun	Co	Production of Bioethanol from water hyacinth	Graduated
20	Mohd Raside Shafad	Co	Dragon fruit foliage as a natural coagulant for wastewater treatment	Graduated
21	Maryam Ehsani	Co	Development of gas sensor using thin and thick film technology	Graduated
22	Yayat Nurhidayat	Co	Mathematical modelling and dynamic simulation of palm fruit digesting process	Graduated
23	Noraniza Ahmad Daud	Co	Upscaling of synthesis process for the production of high quality graphene	Graduated
24	Norin Hafizah Rahim	Co	Coconut Pulp Waste Extract as Corrosion Inhibitor for mild steel in acid corrosion	Graduated
25	Nor Akhlisah Zulkipli	Co	Synthesis of Levulinic Acid from Palm oil mesocarp from degradation of sugar	Graduated
26	Ali Baderldin Abdelmilk Alansari	Co	Membrane treatment and Characterization	Graduated
27	Jasmin Tan Boh Jia	Co	Biohydrogen Production using Dark Fermentation	Graduated

#### SUPERVISION – MASTER BY COURSEWORK

NO	NAME	ROLE	TITLE	STATUS
1.	Nor Razi Misran (2007)	Main	Treatment of VOC using Microbes	Graduated
2.	Nik Amelia Mustapha (2007)	Main	Flocculation of Laundry wastewater using chitosan	Graduated
3.	Rozimah Mohd Tahir (2007)	Main	The study of noise pollution in Politeknik	Graduated
4.	Arutchelvi (2008)	Main	Factors affecting recycling business in	Graduated

			Malaysia	
5.	Norhazwani Ismail (2009)	Main	Jatropha curcas as potential biocoagulant	Graduated
6.	Mary Sharmila Kimbi (2009)	Main	Public Perception on Environment and development issues at Luak Bay, Sarawak	Graduated
7.	Syed Afzal S. Hussin (2010)	Main	Cobalt ions removal using CNTs	Graduated
8.	Chong Fong Ping (2010)	Main	Aloe vera as biocoagulant	Graduated
9.	Wong Teng Yee (2010)	Main	Removals of suspended solids using corn cobs	Graduated
10.	Dashini Pillai (2011)	Main	Comparison between BAR-Zero Waste technology for EFB mulching	Ongoing
11.	Soo Wan Fung (2011)	Main	Green house gas emission for solid wastes disposal at sanitary landfill and feasibility to electricity	Graduated
12.	Husna Muhammad (2011)	Main	Treatment of pome using moringa oleifera	Graduated
13.	Lau Hut Yee (2011)	Main	Isolation and identification of bacteria in wastewater treatment of USM health campus	Graduated
14.	Choo Shyh Yun (2011)	Main	Degradation of textiles wastewater using photocatalyst	Graduated
15.	Siti Fatimah M Sharif (2012)	Main	Use of jatropha curcas as adsorbents	Graduated
16.	Aishah Mahpudz (2012)	Main	Spray drying of biocoagulant of jatropha curcas from liquid to powder	Graduated
17.	Lim Sue Lin (2012)	Main	Effectiveness of jatropha curcas as pythodisinfectants	Graduated
18.	Laura Minda (2013)	Main	Feasibility of sludge treatment wetland applications in Malaysia	Graduated
19.	Mohamad Ali Musa (2013)	Main	Adsorption of safrain from aqueous solution using pineapples	Graduated
20.	Farah Husna Mohd Nasir (2015)	Main	Jatropha as potential coagulant to treat laundry wastewater	Graduated
21.	Mohammed Abdullah Issa (2015)	Main	Jatropha as potential coagulant to treat coloured wastewater	Graduated
22.	Musa Yahaya Pudza (2015)	Main	Tannin as coagulant for treating wastewater	Graduated
23.	Abang Azmi Reza Abang Abdul Rauf (2015)	Main	EIA assessment	Graduated
24.	Nabihah Mokhtar (2016)	Main	Jatropha curcas as potential low cost	Graduated

			adsorbent for colour removal	
25	Rafiq (2016)	Main	Jatropha curcas as potential low cost adsorbent for colour removal	Graduated
26	Nurliyana (2016)	Main	Synthesis of Fluorescent c-dots for sensor application	Graduated
27	Liana	Main	Production of nanocoagulant from chitosan powder	Graduated
28	Marwan Hanis	Main	Production of cement from sewage sludge	Graduated
29	Ho Xiao Jun	Main	Safety climate analysis in IPTs	Graduated
30	Maher	Main	Production of Bioresin with Nanoclays	Graduated
31	Mohammed Madugu	Main	Soil Stabilization with POME	Graduated
32	Vivian Tho	Main	Comparison of coagulant performance from similar and non-similar family	Graduated
33	Nor Liyana	Main	Environmental Awareness in Secondary Schools	Graduated
34	Ahmad Shuhaib Mohd Ali	Main	Production of Biochar	On-going
35	Siti Masyarah (2021)	Main	Treatment of sludge using duck weed by adsorption	Graduated
36	Ibrahim Najeep (2022)	Main	Treatment of Kaolin Water using Powder Jatropha curcas biocoagulant	Graduated
37	Nashatul Azween (2022)	Main	Treatment of Sludge using Coagulation	Ongoing
38	Oliver Zeng FanCheng (2023)	Main	Filtration of Real Wastewater using Jatropha Curcas Membrane modified with graphene oxide	Ongoing

#### SUPERVISION – UNDERGRADUATE

No.	Name	Year	Title	Status
1.	Mohammed Faizal Abd.Wahid	2007	Production of Fatty Alcohol	Graduated
2.	Lau Beh Chin	2007	Production of Fatty Alcohol	Graduated
3.	Chan Wei Chuen	2007	Production of Fatty Alcohol	Graduated
4.	Mohd Zulkifli Md Arif	2007	Production of Fatty Alcohol	Graduated
5.	Fettie Kamelia	2007	Flocculation of Caseine using Chitosan	Graduated
6.	Ahmad Firdaus Abdullah	2007	Flocculation of Albumin using Chitosan	Graduated

7.	KhairilMizal Samsuddin	2007	Flocculation of yeast using Chitosan	Graduated
8	Ng Jenn Yeh	2008	Production of Monoglycerides (Plant Design)	Graduated
9	Fettie Kamelia	2008	Production of Monoglycerides (Plant Design)	Graduated
10	Tan Wei Jian	2008	Production of Monoglycerides (Plant Design)	Graduated
11	Nur Asyiqin Wahiruddin	2008	Production of Monoglycerides (Plant Design)	Graduated
12	Ibrahim Yaakub	2008	Pasteurization of banana juice using ohmic heating (blending time)	Graduated
13	Yuskhairy Mohd Yusof	2008	Pasteurization of banana juice using ohmic heating (conductivity)	Graduated
14	Mohd Firdaus Zulkifli	2008	Pasteurization of banana juice using ohmic heating –effect pH	Graduated
15	Foong Wai Hoo	2009	Plant design for production of biodiesel	Graduated
16	Heng Hooi Sean	2009	Plant design for production of biodiesel	Graduated
17	Gan Woei Hwa	2009	Plant design for production of biodiesel	Graduated
18	Shahrir Shaari	2009	Plant design for production of biodiesel	Graduated
19	Nur Raimi Rusni	2009	Investigation on dielectric properties of halal and non halal products	Graduated
20	Lee Li Chin	2009	Investigating the use of biocoagulant from natural products	Graduated
21	Zuriana Mat Esa	2009	Investigating the use of biocoagulant from natural products	Graduated
22	Farhana 40qilah zulkipli	2009	PVA and starch-Immobilizing agent for biofilm construction	Graduated
23	Vishalini Nair	2009	Production of hydrogen from waste (plant design)	Graduated
24	Asna Omar	2009	Production of hydrogen from waste (plant design)	Graduated
25	Leong Jun Weng	2009	Production of hydrogen from waste (plant design)	Graduated
26	Sim Sze Ying	2009	Production of hydrogen from waste (plant design)	Graduated
27	Tan Chin Yang	2010	Production of Bioethanol Plant Design	Graduated
28	Chuah Say Chin	2010	Production of Bioethanol Plant Design	Graduated
29	Nurul Ain Abu Bakar	2010	Production of Bioethanol Plant Design	Graduated
30	Pavithiran Yogarajah	2010	Production of Bioethanol Plant Design	Graduated
31	Pavithiran Yogarajah	2010	Dielectric behaviour of halal and non-halal products	Graduated
32	Nurul Ain	2010	Adsorption of heavy metals using jatropha presscake	Graduated
33	Daniel Lai Ern Yoong	2011	Production of Methyl Ester Sulfonate Plant (Plant Design)	Graduated
34	Chia Yaw Kwan	2011	Production of Methyl Ester Sulfonate Plant (Plant Design)	Graduated

35	Lee Yuk Ling	2011	Production of Methyl Ester Sulfonate Plant (Plant Design)	Graduated
36	Nur Farahani Abdul Rahman	2011	Production of Methyl Ester Sulfonate Plant (Plant Design)	Graduated
37	Norshazwani Mohd Rosliza	2011	Production of Methyl Ester Sulfonate Plant (Plant Design)	Graduated
38	NorFadhilah Dollah	2011	Dielectrophoretic response of aquatic pathogens	Graduated
39	Wan Mujahid	2011	Detection of Phenols using cellular dielectrophoresis	Graduated
40	Nur Aisyahira	2011	Bioleaching of heavy metals from pcb waste	Graduated
41	Alya Nazeera Mohd Azemi	2012	Extraction of value added product from plant	Graduated
42	Wong Mei Lin	2012	Extraction of value added products from gynura procembens	Graduated
43	Asiah Abdul Hadi	2013	Transformation of jatropha liquid coagulant into powder	Graduated
44	Wan Aznorin Mohamad	2013	Extraction compound from sambung nyawa	Graduated
45	Muhammad Fazreen Nasriq Fazari	2015	Detection and measurement of pH via fiber optic sensor	Graduated
46	Umar Khalis Kamarudin	2015	Rekabentuk plant design for the production of polymer	Graduated
47	Muhammad Faris Fitri	2015	Rekabentuk plant design for the production of polymer	Graduated
48	Sheikh Muhammad Akmal	2015	Utilization of Syngas derived from palm waste biomass	Graduated
49	Muhammad Amin Sabri	2015	Utilization of Syngas derived from palm waste biomass	Graduated
50	Chong Hui Shan	2015	Utilization of Syngas derived from palm waste biomass	Graduated
51	Ng Rong Jang	2015	Utilization of Syngas derived from palm waste biomass	Graduated
52	Yuganeswaran a/l Arumugam	2015	Utilization of Syngas derived from palm waste biomass	Graduated
53	Mohd Nazrulhisham Ismail	2015	Detection and measurement of biomass via fiber optic sensor	Graduated
54	Ahmad Ilyas Rushdan	2016	Rekabentuk plant design for the production of polymer	Graduated
55	Areej	2016	Rekabentuk plant design for the production of polymer	Graduated
56	Asyraf Aiman	2016	Rekabentuk plant design for the production of polymer	Graduated
57	Muhammad Danial Muhammad Rais	2016	Detection and measurement of biomass via fiber optic sensor	Graduated

58	Lee Hao Jun	2017	Evaluating Microfluidic system performance for enhanced detection	Graduated
59	Ng Rong Jang	2017	Coagulation of microalgae using natural coagulant	Graduated
60	Ng Rong Jang	2016	Utilization of Syngas derived from palm waste biomass	Graduated
61	Muhammad Safri Haqimi	2017	Polypropylene Production via propane Dehydrogenation	Graduated
62	NurSyuhadah	2017	Polypropylene Production via propane Dehydrogenation	Graduated
63	Muhammad Hafidh Abd Aziz	2017	Polypropylene Production via propane Dehydrogenation	Graduated
64	Nurul Shahirah Juhari	2017	Polypropylene Production via propane Dehydrogenation	Graduated
65	Muhammad Taqiyuddin Faridil Atras	2017	Polypropylene Production via propane Dehydrogenation	Graduated
66	Liew Mun Ngar	2018	Detection of Chemical using Optical Fiber Sensor	Graduated
67	Agita Tresnasari Setiawan	2018	Jatropha oil blend composite enhanced with nanoparticles	Graduated
68	Mohd Shahfeeq Zalizan	2019	Functionalizing Membrane from jatropha oil using Nanoparticles	Graduated
69	Muhammad Amirul	2019	Membrane synthesis and characterization using chitosan/cellulose blend	Graduated
70	Izzati Binti Mohd Razali	2018	Production of Chlorine	Graduated
71	Aida Fitri Binti Peli	2018	Production of Chlorine	Graduated
72	Low Ler Min	2018	Production of Chlorine	Graduated
73	Ong Shi Jing	2018	Production of Chlorine	Graduated
74	Umar Adam Majid	2020	Functionalizing Membrane from jatropha oil using carbon dots	Graduated
75	Ammar Gamal	2020	Fluid Flow in channels	Graduated
76	Sathya Rao Subramanian	2021	Screen printed electrode modified with carbon dots from tapioca for electrochemical detection of Zn(II) and Cu(II) in aqueous solution	Graduated
77	Nur Aqilah Muhammad Fairuz	2021	Optimization of spray drying process for producing <i>Jatropha curcas</i> presscake biocoagulant using response surface methodology	Graduated
78	Alya Najihah Zakaria	2021	Extraction of Essential Oil from <i>Citrus Hystrix</i> leaves using NADES assisted hydrodistillation	Graduated
79	Subashiny Nadarajah	2022	Optimization and Characterization of Pectin Extracted from <i>citrus macrocarpa</i> peels	Graduated

80	Hazman Husnin	2022	Filtration of coloured synthetic wastewater using <i>Jatropha</i> oil biobased membrane functionalized with carbon dots	Graduated
81	Roobaraj Yatheven	2022	Synthesis and Characterization of <i>Jatropha</i> Oil biobased membrane decorated with various additives for filtration applications	Graduated
82	Mohd Hairul Ridwan	2023	Isolation and Purification of Trehalulose from Stingless Bees Honey	Ongoing
83	Nur Syafiqah Md Isa	2023	Optimization of Spray drying of trehalulose	Ongoing

STUDENT DEVELOPMENT ACTIVITIES				
NO	ACTIVITES	YEAR	ROLE	LEVEL
1	Student Mobility Visit To Vietnam – 40 students	2016	Accompanying Lecturer	Department
2	Student Application for GLINK Erasmus Mundus Scholarship	2013	Assisting Lecturer	Department
3	Student Intervarsity Sports	2007, 2010	Representative	Department
4	Academic Advisory for Students	2007-kini	Academic Advisor	Department
5	10 <sup>th</sup> Anniversary Event for Department	2006	Representative for Lecturer	Department
6	Jury for Technical Essay Writing Competition, NACES 2009, Sabah	2009	Jury student competition	National
7	Internal assessor Chemecar Competition	2010	Jury student competition	Department
8	Journal Reviewer IEEE Student Conference on Research and Development	2011	FYP Student Paper Evaluator	National
9	English Immersion Programme with Student	2012	Assisting Lecturer	Faculty
10	Judge Technical of Video Conference, National Chemical Engineering Symposium, 2015 NACES	2012	Jury student competition	National
11	Reviewer and Panel for Undergraduate Research Catalyst Conference 2013	2013	Evaluator Student Paper	National
12	Supervisor for inbound Students from Kazakhstan National Technical University	2013	Supervisor	Faculty
13	Jury for Science and Technology Exhibition, Sekolah Menengah Sains	2015	Jury student competition	National

	Selangor			
14	Jury for Innovation Day Kolej Mara Banting	2016	Jury student competition	National
15	Supervisor for inbound student from Indonesia, Vietnam, China	2016, 2017	Supervisor	Department
16	Science and Engineering Exhibition with School Children	2016	Director	Fakulti
17	Industrial Training and Visit To INSTEP Petronas	2019	Accompanying Lecturer	Department
18	Student Referee University of Manchester– Li Congran	2020	Referee	International
19	Student Referee University of Southern California – Zentou Hameed	2022	Referee	International
20	Student Referee King Fahd University of Petroleum and Minerals– Zentou Hameed	2023	Referee	International

#### COMMITTEE MEMBER – UNIVERSITI LEVEL

NO	ROLE	PROGRAMME	YEAR	LEVEL
1	Faculty Safety Officer	Safety Programme	2007-2009	Faculty
2	Department Representative	IChemE Visit	2006	Department
3	Department Representative	Engineering Audit Panel to UPM	2008	Department
4	Auditee	Audit APA and SWA Accreditation	2010	University
5	Director	Biomass and Biofuels Workshop	2012	Faculty
6	Secretary	Kindergarten Task Force for Engineering Faculty	2013	Faculty
7	Director	Video Project on Undergraduate Lab	2015	Department
8	Director	20 <sup>th</sup> Anniversary of Department of Chemical and Environmental Engineering	2016	Faculty
9	Director	Science Exhibition Faculty of Engineering	2016	Faculty
10	Director	Subcritical Water : Theory and Applications	2016	Faculty

11	Committee Member	Curriculum Review of Master Environmental Engineering	2016	Faculty
12	Committee Member	Price Assessment of Quotation of Proposal to design, construct and complete Clean Room.	2016	University
13	Committee Member	Research Exhibition	2016	Faculty
14	Committee Member	Program Global I lead STEM Camp for School Children	2017	University
15	Director	STEM Exhibition at Wilayah Persekutuan District Level	2018	Faculty
16	Head of Engineering Cluster	Programme with School Teachers - Jelajah Sains Minda Gemilang	2018	University
17	Committee Member	Programme Global I lead STEM Camp	2018	University
18	Committee Member	Putra MOOC Committee	2018	University
19	Committee Member	STEM Awareness Programme with Murid Orang Asli	2018	Faculty
20	Director	STEM Exhibition in Sek Ren Sri Ayesha	2019	University
21	Advisor	Knowledge Transfer of Orang Asli Bukit Tampoi	2019	University
22	Committee Member	STEM Exhibition for SMK Sungai Bukit Kapar	2019	University
23	Committee Member	Global I Lead Stem Camp	2019	University
24	Committee Member	STEM Exhibition Sekolah Sri Al Amin – Junior STEM Chef	2019	University
25	Director	1 <sup>st</sup> International Conference on Innovation in Chemical Engineering and Innovation (ICICET)	2020-2021	University

PROFESSIONAL SERVICE – UNIVERSITI			
No	ROLE	PROGRAMME/ORGANISATION	YEAR
1	Consultancy Member	Puncak Research Sdn Bhd, Alternative Coagulant	2009-2012
2	Putra Grant Evaluator	Universiti Putra Malaysia	2016-2020
3	Grant Evaluator - FRGS, ERGS, Escience Fund, PRGS	Universiti Putra Malaysia	2016-2020
4	Sport Staff Representative -100m	University Yearly Sport Staff Event	2007
5	Official Programme Delegate	Master of Environmental Engineering and ETM, Dept of Chemical Engineering	2008

6	Accompanying Officer	Student Visit to Core Competencies	2008
7	Assignment Evaluator for PTK	Training in Professional Development - Registrar	2009
8	Invited Speaker	Seminar for Newly Appointed Lecturer	2009
9	Proposal Evaluator RUGS	Faculty of Engineering	2010
10	Jury	Chem-E Car Competition – Department	2010
11	Internal Assessor Chem E-car Competition	Faculty of Engineering	2010
12	Escience Fund Proposal Evaluator	Faculty of Engineering	2010
13	Chairman of Thesis Examination	Mohamad Golestan Bagh	2010
14	Exhibitor	Expo MAHA, UPM	2010
15	Exhibitor/Advising Officer	Postgraduate Event Fair, Faculty of Engineering	2011
16	Invited Speaker	Seminar on Sensor Technology and Applications	2011
17	Kembara Satria	Yearly Staff Sports Event	2012
18	Accompanying Lecturer	Convocation	2013
19	Facilitator	Immersion Program untuk English	2013
20	Coordinator	Mobility of Kazakh National Technical University	2013
21	Chairperson for Thesis Examination	Abd Halim Mohd Ali	2013
	Chairperson for Thesis Examination	Bidita Salahuddin	2014
22	Invited Speaker	Workshop of Biotechnology of Biomass Utilization for ASEAN Development	2016
23	Accompanying Lecturer	Student Mobility ke Vietnam	2016
24	Coordinator	Lawatan Universitas Indonesia	2016
25	Chairperson for Thesis Examination	Nik Norfadhilah Nik Kob	2017
26	Chairperson for Thesis Examination	Saidatul Alia Awaluddin	2017
27	Assessor Panel For Conversion of Master To PhD- Bernard	Fakulti Kejuruteraan	2017
28	Chairperson for Thesis Examination	Surendran Kurandan	2019
29	Chairperson for Thesis Examination	Thitima Na Songkla	2019
30	Chairperson for Thesis Examination	Ahmed Abdulmajeed Mohammed Al-Ogaidi	2019
31	Invited Speaker - ICRIS	Institute Halal, UPM	2018
32	Invited Speaker - ICRIS	Faculty of Science, UPM	2018

33	Invited Speaker – Screen Casting	Faculty of Engineering, UPM	2018
34	Invited Speaker - Mobility Programme from Cheng De University, China	Faculty of Engineering, UPM	2018
35	Facilitator – ICRIS Workshop	Faculty of Engineering, UPM	2018
36	Chairperson for Thesis Examination	Surendran Kuranadan, Universiti	2019
37	Chairperson for Thesis Examination	Thitima Na Songkhla, Universiti	2019
38	Chairperson for Thesis Examination	Ahmed AbdulMajeed Mohammed Al Ogaidi, Universiti	2019
39	Invited Speaker - Mobility Programme from Cheng De University, China	Faculty, University	2020
40	Chairperson for Thesis Examination	GS38847 - Ahmed Shamil Abdulrahman, Universiti	2020
41	Chairperson for Thesis Examination	GS44080 - Sepehr Azizkhani, Universiti	2020
42	Invited Speaker for Academic Sharing - Development of Online Assessment Tools	Faculty, University	2020
43	Invited Speaker for Academic Sharing - Microsoft Teams	Faculty, University	2020
44	Invited Speaker for Research Sharing - Bioseparation and Biosensors: Bridging the Gap For Sustainable Advancement Future	Faculty, University	2020
45	ICF MOSTI Grant Evaluator	University	2020
46	Mentor Kursus Asas Pengajaran (KAP) Pensyarah Muda	University	2020
47	Moderator RSM Postgraduate Webinar	University	2020
48	Invited Speaker, Postgraduate sharing with Mannipal International University	University	2021
49	Coordinator For Program Sulong B40	Faculty, University	2022
50	Facilitator for Research Grant Workshop	Faculty, University	2022
51	Chairperson Thesis Examination – Abderrahime Zermaine	University	2023
52	Chairperson Thesis Examination – Li Fan GS51821	University	2023

53	Chairperson Thesis Examination – Nor Akhlisah	University	2023
54	Chairperson Thesis Examination - Nur Aliah Fatin binti Mohd Nizam Ong	University	2023
55	Internal Grant Evaluator	Faculty, University	2016-

**PROFESSIONAL SERVICES – INTERNATIONAL/NATIONAL**

NO	ACTIVITIES	ROLE	YEAR	LEVEL
1	MSET Information and Publication Committee	Committee Member	2010-2011	National
2	FRGS Proposal Paper	Evaluator	2018-2019	National/UNIMAP
3	1 <sup>st</sup> World Engineering Congress	Committee Member/ Editor	1999	International
4	Metabolic Engineering Workshop, Selangor	Committee Member	2002	National
5	1 <sup>st</sup> Malaysian Research Conference (MRG), Manchester, UK	Committee Member	2002	International
6	2 <sup>nd</sup> Malaysian Research Conference (MRG), Manchester, UK	Committee Member	2004	International
7	3 <sup>rd</sup> Annual Malaysian Research Group Conference in Manchester, UK	Committee Member	2005	International
8	Malaysian International Conference, Manchester, UK,	Session Chairperson	2006	International
9	10 <sup>th</sup> Departmental Anniversary Celebration	Committee Member	2006	National
10	Malaysian International Research Conference : Chemical and Biotechnological Science Section	Conference Reviewer	2006	International
11	Science and Engineering Technology (SET) Conference	Conference Reviewer	2006	International
12	Symposium of Malaysian Chemical Engineers, UPM.	Editor	2007	National
13	21 <sup>st</sup> Symposium of Malaysian	Committee Member	2007	National

	Chemical Engineers			
14	21 <sup>st</sup> Symposium of Malaysian Chemical Engineers, Faculty of Engineering, UPM.	Session Chairperson, Material Biochemical Engineering	2007	National
15	AUDIT IPTA for Laboratory Equipment	Working Committee	2007	National
16	Pertanika Special Issue of 21 <sup>st</sup> Symposium of Malaysian Chemical Engineers.	Editor Jemputan	2008	National
17	Journal of Science and Technology (JESTEC) Special Issue of 21 <sup>st</sup> Symposium of Malaysia	Editor Jemputan	April/ August 2008	National
18	Engineering Accreditation Visit	Committee Member	2008	National
19	Forum Konsultasi Kebangsaan Standard dalam bidang Bioteknologi	Refereed Panel	2009	National
20	Monitoring Workshop Projek Science Fund MOSTI	Presenter	2009	National
21	National Chemical Engineering Symposium (NACES)	Jury for Technical Essay Student Competition	2009	National, Jabatan Hal Ehwal Pelajar, Universiti Malaysia Sabah
22	MYSET Newsletter	Information and Publication Committee	2009-2011	National, MySET
23	World Engineering Congress	Co Editor for Technical	2010	International
24	SWA Akreditasi UPM	Auditee, Engineering	2010	National
25	World of Engineering Congress	Conference Reviewer	2010	International
26	Conference of natural resources and green technology	Conference Reviewer	2010	International
27	Conference on Advanced Material and Processes	Conference Reviewer	2010	International
28	Chem-E Car Competition – Department	Jury	2010	International
29	NACES	Jury	2010	International

30	MAHA Expo	Exhibitor	2010	International
31	World Engineering Congress – Conferences on Advanced Processes and Material	Technical Co-Paper Manager	2010	International, FEIC and MSET
32	IEEE Student Conference on Research and Development	Technical Assessor	2011	National, SCORED 2011 and MMU
33	Research Collaborator	Collaborator	2013	National, UNIMAS, SARAWAK
34	Assessor	External Examiner	2013 - 2022	Universiti Sains Malaysia
35	Promotion to Associate Professor – Dr Rizafizah Othaman	Assessor	2015	National, Universiti Kebangsaan Malaysia
36	Asian Transactions AJK Editorial	Editorial member	2015	Asian Transactions
37	Composting Project in SMK Bandar Puchong	Refereed Panel	2015	MISC (M) Sdn Bhd
38	Science Fair	Exhibitor and Evaluator	2015	National, Sekolah Menengah Sains Selangor
39	Innovation Competition in Kolej Mara Banting	Jury	2016	Kolej Mara Banting
40	Development Nederlands Organization of Scientific Research	Proposal Evaluator	2016	International
41	10th Asia Pacific Biotech Congress	Committee Member	2016	International
42	Collaborator in Project Development of Bioresin from bioresources for Aerospace Application	Project Leader	2016	National, AMIC dan Malayan Adhesive Chemical Sdn Bhd.
43	Promotion of Associate Professor	Assessor	2017	National, Universiti Islam Antarabangsa Malaysia
44	Global I –Lead Stem Camp	Committee Member	2017	National, PIBG SBPI Selandar
45	Internation Food Research Conference	Poster Jury	2017	Organizer
46	Program GISC 2017	Facilitator	2017	National, Persatuan Guru STEM dan PIBG SBPI Selandar

47	Promotion to Associate Professor - Dzun Norain Binti Jimat, IIUM	Promotion Panel	2017	International Islamic University Malaysia
48	FRGS Grant Evaluator	Assessor	2018	Universiti Malaysia Pahang
49	Project on Vermicompost dan Urban Farming	Refereed Panel	2018	National, Maybank
50	International Conference of Process Engineering and Advanced Material	Chairperson	2018	International, ICPEAM and UTP
51	31st Symposium of Malaysian Chemical Engineers (Somche 2018)	Chairperson	2018	International, ICheme
52	31 <sup>st</sup> Symposium of Malaysian Chemical Engineers	Sponsorship Committee	2018	National
53	Water and Wastewater Academic Program Assessor	Academic Programme Assessor	2018	National/UNIKL
54	Global I –Lead Stem Camp	Main Committee	2018	National, Persatuan Guru STEM Malaysia
55	STEM Exhibition Peringkat Wilayah Persekutuan	Jury of Innovation Competition	2018	National, Bahagian Pembangunan Kurikulum (BPK KPM), Jabatan Pendidikan Putrajaya
56	STEM Exhibition Peringkat Wilayah Persekutuan	Exhibitor	2018	National Bahagian Pembangunan Kurikulum (BPK KPM) Jabatan Pendidikan Putrajaya
57	Jelajah Sains Gemilang Minda, JSMG 2018	Facilitator	2018	National, BPK, KPM
58	STEM Awareness Program Among Murid Orang Asli	Director/Facilitator	2018	National, Islamic Relief Malaysia
59	20 <sup>th</sup> World Conference of Applied Science Engineering and Technology	International Advisory Board	2019	International, WCASET Organizer
60	Workshop on STEM Low Cost Modul and STEM Carnival Modul with Teachers	Modul STEM Facilitator	2019	Kebangsaan, Persatuan Guru STEM Malaysia
61	Yand Dipertuan Agong Scholarship	Interview Panel	2019	National, Kementerian Pendidikan Malaysia

62	STEM Exhibition Sri Ayesha	Director/Facilitator	2019	National, Sekolah Islam Sri Ayesha
63	Defence, Security, and Sustainability 2019 (DSS 2019) Exhibition	Competition Jury	2019	UPNM, Kebangsaan
64	Editorial Board Member	Journal of Insights-Energy Science	2019	Piscomed Publishing, Singapore
65	Research Project with MRSM Langkawi	Supervisor/Advisor	2019	MRSM Langkawi
66	Research Project with St John's Institution	Supervisor/Advisor	2019	St. John's Institution
68	Yayasan Universiti Teknologi Petronas Fundamental Research Grant (YUTP-FRG)	External Evaluator	2019-2024	Universiti Teknologi Petronas
69	Universiti Malaysia Pahang-MyGrants Evaluator	External Evaluator	2020	Universiti Malaysia Pahang
70	Program Mobility Cheng De University, China	Invited Speaker	2019	Universiti
71	International Journal Reviewer	Journal Reviewer	2006-2019	Industrial Crops and Products, Environmental Progress and Sustainability, Desalination and Water Treatment, International Journal and Food Properties, Process Biochemistry, Fuel, Environmental Progress, Material Chemistry Physics, Journal of Food Science and Technology, Process Safety, Journal of Cleaner Products, Environment and Sustainability Indicators, JESTEC, Desalination, Journal of Hazardous Material, Fuel Processing Journal, African Journal of Biotechnology, African Journal of Applied Science, Food Research, RSC Advances, Journal of Cleaner Production, Food Chemistry

72	National Journal Reviewer	Journal Reviewer	2006-2019	Sains Malaysiana, Akademi Sains Malaysia, PERTANIKA
73	FRGS Grant Evaluation	FRGS Grant Evaluator	2020-2022	Kementerian Pengajian Tinggi Malaysia
74	MRUN Grant Evaluation	MRUN Grant Evaluator	2020-2022	Universiti Teknologi Malaysia
75	Publon Academy Mentorship	Reviewer Mentor for PhD student	2020	Publon Academy
76	YDPA Scholarship	Interviewer Panel	2021, 2020	Kementerian Pendidikan Malaysia
77	Regional Chemical Engineering Undergraduate Conference	Reviewer	2020, 2021, 2022	Universiti Malaya
78	FRGS Grant Evaluator	Evaluator	2020	Herriot-Watts University
79	WCASET, Vietnam	International Advisory	2020	IFERP
80	International Conference of Innovation in Chemical Engineering and Technology 2021 (ICICET)	Director	2021-2022	Universiti Putra Malaysia
81	14 <sup>th</sup> Regional Conference of Chemical Engineering (RCChE) and 1 <sup>st</sup> ICChe 2021	Director	2021-2022	AUNSEED-JICA
82	Promotion to Associate Professor, Tan Ai Ivy	Assessor	2021	Universiti Malaysia Sarawak (UNIMAS)
83	Bengkel dan Pertandingan AutoCAD	Assessor	2022	Universiti Putra Malaysia
84	Mannipal International University Postgraduate Talk	Invited Speaker	2022	MIU
85	Promotion to Associate Professor - Masrina Binti Mohd Nadzir	Panel Assessor	2022	University Science Malaysia
86	Video Competition for IKRAM Konvensyen	Jury	2023	Ikram Academia
87	Best Thesis Competition MSAE	Jury	2023	Malaysia Society Agricultural Engineers (MSAE)
88	MRUN Project Progress Evaluator	Panel Assessor	2023	MRUN, UTM
89	Referee for Application for Lecturer Post	Referee	2023	University of Southern California

90	Referee for Application for Lecturer Post	Referee	2023	King Fahd University of Petroleum & Minerals
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**EXAMINERS – INTERNAL AND EXTERNAL**

NO	NAME OF STUDENTS	PROGRAM	ROLE	YEAR	LEVEL
1	Mohamad Faiz Mukhtar Gunam Resul	Master	Internal	2012	Universiti
2	Norwahidah Zakaria	Master C	Internal	2009/2010	Universiti
3	Enas Abdulqader Saeed Al Maamary	Master	Internal	2009/2010	Universiti
4	Sahlizah Sahul Hamid	Master C	Internal	2009/2010	Universiti
5	Wan Nuraein W. Mohd	Master C	Internal	2010/2011 UPM	Universiti
6	Mohd Fadzli Mohamed	Master C	Internal	2010/2011	Universiti
7	Yusma Laili	Master C	Internal	2007	Universiti
8	Noorlin Mohamad	Master	Internal	2008	Universiti
9	Maryam Rahmati Zadeh	Master	Internal	2010	Universiti
10	Suriyanti Harun	Master C	Internal	2011	Universiti
11	Mustapha Akil	Master	Internal	2011	Universiti
12	Tee Lee Hong	Master C	Internal	2011	Universiti
13	Khairul Nizam Abdul Latif	Master C	Internal	2012	Universiti
14	Hartini hamdan	Master C	Internal Examiner	2012	Universiti
15	How Mei ling	Master	Internal	2012	Universiti
16	Norazrina Pakiman	Master	Internal	2012	Universiti
17	Mohd Farhan Abdul Razak	Master	Internal	2012	Universiti
18	Ahmad Rajab Al-Juboori	PhD	Internal Examiner	2012	Universiti
19	Sltl Hajar binti Abd Rahman	Master	Internal	2012	Universiti
20	Amir Syariffuddeen btn	Master	Internal	2012	Universiti

	Mohd Adnan				
21	Mohd Aidil Kamaruzzaman	Master	<b>External</b>	2013	Kebangsaan, UKM-
22	Teoh Yi Peng	Master	Internal	2013	Universiti
23	Norhasliza Hassan	Master	Internal	2013	Universiti
24	Farideh Abhari	Master	Internal	2013	Universiti
25	Nurul Nadhirah Abdul Razak	Master	Internal	2013	Universiti
26	Pui Wee Kong	Master C	Internal	2013	Universiti
27	Cheah Yeah Wei	Master C	Internal	2013	Universiti
28	Siti Norain Md Nor	Master C	Internal	2013	Universiti
29	Mohd Aidil Kamaruzzaman	<b>Master</b>	<b>External</b>	2013	UKM, Kebangsaan
30	Donya Novin	Master	Internal	2014	Universiti
31	Soheil Nekoui	Master	Internal	2014	Universiti
32	Valerie Lim Cheng Ping	Master C	Internal	2015	Universiti
33	D Fatimah Zahara	Master C	Internal	2015	Universiti
34	Mohammad Farhan Mohd Nor	Master	Internal	2015	Universiti
35	Nur Atiqah Mohamad Aziz	Master C	Internal	2015	Universiti
36	A Syed Abd Bari	Master	Internal	2015	Universiti
37	Musa Idris Tanimu	Master	Internal	2015	Universiti
38	Shanmuga Sundari T	<b>PhD</b>	<b>External</b>	2015	Anna University, INDIA, Antarabangsa
39	Rana Jaafar	Master	Internal	2016	Universiti
40	Sana Yacub	<b>Master</b>	<b>External</b>	2016	UTP, Kebangsaan
41	Wong Teck Soon	<b>Master</b>	<b>External</b>	2016	UNIMAS, Kebangsaan
42	Masoumeh	Master	Internal	2017	Universiti
	Syafiqah binti Razali	Master	Internal	2017	Universiti
43	Maytham Kadhim Obaid	Master	Internal	2017	Universiti
44	Carolyn Jane Gombek	Master C	Internal	2017	Universiti

45	Tan Lay Hoon	Master C	Internal	2017	Universiti
46	Noraisah Mohd Jahi	<b>Master</b>	<b>External</b>	2017	UKM, Kebangsaan
47	Mohamad Johan Iskandar Zahari	<b>Master</b>	<b>External</b>	2017	UKM. Kebangsaan
48	Saleem Nawaz Khan	<b>Master</b>	<b>External</b>	2017	UTP, Kebangsaan
49	Ting Yien Fang	PhD	Internal	2018, 2019	Universiti
50	Li Fan	Master C	Internal	2018	Universiti
51	Ramin Khezri	PhD	Internal	2018	Universiti
52	Lee Siong Hoong	PhD	Internal	2019	Universiti
53	Mohd Bakhtiar Sobri	Master	Internal	2018	Universiti
54	Anijiofor Sandra Ogfor	PhD	Internal	2018	Universiti
55	Mohd Zulfika Hazielim	<b>Master</b>	<b>External</b>	2018	UKM, Kebangsaan
56	Nur Farahein Hadina Ismail	<b>Master</b>	<b>External</b>	2018	UKM, Kebangsaan
57	Nour A. T. Zghaibi	Phd	Internal	2019	UPM, Universiti
58	Lau Kia Li	Master	Internal	2019	UPM, Universiti
59	Mussarat Saleem	Phd	<b>External</b>	2019	UniKL, Kebangsaan
60	Syazwani	Master C	Internal	2020	UPM, Universiti
61	Zaitun Ghazali	PhD	<b>External</b>	2020	UKM, Kebangsaan
62	Siti Jamilah Mohd Yusof	PhD	Internal	2020	UPM, Universiti
63	Sherra Bellina Barabas	Msc	<b>External</b>	<b>2020</b>	<b>UNIMAS, Kebangsaan</b>
64	Nur Saiful Hafiz bin Abdul Habib	PhD	Internal	2021	UPM, Universiti
65	Lennevey Kinidi	PhD	<b>External</b>	2021	UNIMAS, Kebangsaan
66	Nurul Aqilah binti Abdul	PhD	<b>External</b>	2021	UiTM Shah Alam, Kebangsaan
67	Siti Baizura binti Mahat	PhD	Internal	2021	UPM, Universiti
68	Nur Atiqah Mohamad Aziz	PhD	Internal	2021	UPM, Universiti
69	Yayat Nurhidayat	PhD	Internal	2022	UPM, Universiti
70	Nurul Hanisah Binti	PhD	<b>External</b>	2022	UKM, Kebangsaan

	Mohd				
71	Abdullah Abdulhameed (KEE)	PhD	Internal	2022	UPM, Universiti

<b>PROFESSIONAL BODIES</b>			
<b>POSITION</b>	<b>ORGANIZATION</b>	<b>PLACE</b>	<b>YEAR</b>
Member	Institution of Chemical Engineers UK	UK	1997-present
<b>Chartered Engineer</b>	ICHEME and Engineering Council	UK	2018-present
<b>Graduate Technologist</b>	Malaysia Board of Technologist	Malaysia	2020- present
<b>Professional Technologist</b>	Malaysia Board of Technologist	Malaysia	2020- present
<b>Member</b>	Akademi Profesor Malaysia	Malaysia	2022-present
Member	Majlis Profesor Negara	Malaysia	2020 - present
Graduate member	Board of Engineers Malaysia	Malaysia	2006-present
Member	Malaysian Society for Engineering and Technology	Malaysia	2008-
Member	Society of Engineering and Education Malaysia	Malaysia	2009-
Representative for Elektrisola (M) Sdn Bhd	Environmental Committee in Malaysian Chamber and Commerce Institute (MICCI)	Malaysia	1998
Member	Persatuan Pegawai Akademik	UPM	2006-present
Member	Alumni Loughborough University	Loughborough, UK	1997-present
Member	Alumni University of Manchester	Manchester, UK	2002-present
Member	Kelab Sukan dan Sosial Fakulti Kejuruteraan, UPM	UPM	2006-present
Member	PERINTIS	Malaysia	2020-present
Member	IKRAM ACADEMIA	Malaysia	2020 - present

JINM				
YEAR	ACTIVITIES	ROLE	VENUE	INDUSTRI/COMMUNITY
2015	Science Fair, Sekolah Menengah Sains Selangor	Jury and Exhibitor	SMSS, Cheras	SMSS
2015	Composting Project SMK Bandar Puchong	Refereed Panel	SMK Batu 14 Puchong	MISC Sdn Bhd
2016	Science and Engineering Exhibition	Director	Fakulti Kejuruteraan, UPM	SCHOOL
2016	Dinh Co Processing Plant, Vietnam	Director	Vietnam	PetroVietnam
2017	Science and Innovation Exhibition	Jury	Kolej Mara Banting	Kolej Mara Banting
Dis 2017	GLOBAL I LEAD STEM CAMP 2017	Committee Member and Facilitator	Fakulti Kejuruteraan, UPM	PIBG SBPI SELANDAR
2017	Development of Bioresin from Bioresources for Aerospace Application	Project Leader		AMIC dan MACSB
Dis 2018	GLOBAL I LEAD STEM CAP 2018	Committee Member	Dewan Besar, UPM	PERSATUAN GURU STEM
Dis 2018	ISTEMO 2018	Committee Member	Dewan Besar, UPM	PERSATUAN GURU STEM
Jun 2018	STEM Awareness Programme among Murid Orang Asli, SK Buluh Nipis, Pahang bersama Islamic Relief	Director and Exhibitor	SK Buluh Nipis Pahang	ISLAMIC RELIEF MALAYSIA dan SK BULUH NIPIS
2018	STEM Exhibition, Peringkat Wilayah Persekutuan	Jury and Exhibitor	SMK Bandar Tasik Selatan	BPK, Wilayah Persekutuan
2018	Jelajah Minda Sains Gemilang	Facilitator	UPM	BPK, KPM
2018	Urban Farming Skilling/Vermicompost Project	Refereed Panel	Maybank Academy	Maybank
2019	STEM Exhibition, Peringkat Sekolah Sri Ayesha	Director and Exhibitor	SM Sri Ayesha	SM Sri Ayesha

2019	STEM Exhibition, SMK Sungai Kapar Indah, Klang	Exhibitor UPMSTEM	SMK Sungai Kapar Indah, Klang	SMK Sungai Kapar Indah, Klang
2019	Junior STEM Chef	Exhibitor	SRI Al Amin Bangi	SRI Al Amin Bangi
2019	Knowledge Transfer Programme to Masyarakat Orang Asli, Bukit Tampoi, Dengkil	Programme Advisor/Working Committee Member	SK (A) Bukit Tampoi	SK Bukit Tampoi dan Islamic Relief Malaysia
2019	Student Project Supervision	Supervisor	UPM	MRSM Langkawi
2019	Student Project Supervision	Supervisor	ST John's Institution	ST John's Institution
2019	International STEM Olympiad	Main Committee Member	UPM	Persatuan Guru STEM Malaysia
2019	Global I Lead STEM Camp	Main Committee Member	UPM	Persatuan Guru STEM Malaysia
2019	Environmental and Sustainable Intervention among School Children	Supervisor	Greenview International School	Greenview International School

SEMINAR AND TRAINING ATTENDED		
DATE	SEMINAR/TRAINING	VENUE
28-30 Jun 2006	Kursus pengenalan dan pengurusan Fakulti Kejuruteraan Siri 1/2006	Fakulti Kejuruteraan, UPM
18 Sept 06	Workshop on Autothermal desorber (ATD)	Makmal Kejuruteraan Kimia
13 July 06	Dialog Penyeliaan Pelajar Siswazah dan penerangan prosedur Pengajian siswazah	Bilik Taklimat Fasa 2A
26 Aug 06	Chemical Engineers- innovating technologies for sustainable development	Auditorium Kejuruteraan, Fakulti Kejuruteraan, UPM
13 Okt 2006	Bengkel course assessment according to OBE	Dewan Seminar, FK, UPM
21-22 Nov 2006	Providing Quality in Postgraduate Supervision	Fakulti Bahasa moden dan Komunikasi, UPM
5 Dec 06	Bengkel penyeliaan dan pemeriksaan Thesis para	Bilik Seminar Blok B, Fakulti

	siswazah, Bilik Seminar, Fakulti Kejuruteraan, 5 Dis 2006	Kejuruteraan
19 Dec 06	Bengkel Penyelidikan by RMC	Auditorium Kejuruteraan
19–21 Dec 06	SomchE 2006	Fakulti Kejuruteraan Kimia, UiTM, Shah Alam
21 Dec 06	OBE Workshop – Teaching Plan + Course Assessment	Fakulti Kejuruteraan, UPM
4-5 Dec 2006	Publishing For Postgraduate	Fakulti Bahasa, UPM
8 Mac 2007	Control Equipment Training	Lab Makmal Proses I, FK, UPM
April 2007	FTIR	Analytical Lab
3-5 May 2007	Bengkel Msc	Cyberview Resort and Spa,
18 May 07	FPLC Training	Analytical Lab
18 May 07	Cross Flow Filtration Training	Material Lab
4-22 Jun 2007	Induksi	Residence Hotel
June – 1 Julai 2007	Bengkel Pemantapan Kerja	Tiara Beach Resort, Port Dickson
3-5 Mei 2007	Bengkel Halatuju MSEE/ETM	Cyberview Lodge and Spa
13 Nov 2007	Bengkel Penasihat Akademik	Fakulti Ekonomi, UPM
6 Dec 2007	Bengkel Pengurusan Penyelidikan	RMC
12-14 Dec 2007	21 <sup>st</sup> Symposium of Chemical Engineer's 2007	UPM
5-6 Sept 2007	Bengkel Kimia	UKM
24 Oct 2008	Retreat Bengkel Cyberjaya	Cyberjaya
3-5 June 2008	Bioreactor Operation	IBS, UPM
23 June 2008	PTK 3	UPM
10-11 Nov 2008	First Aiders	UPM
13-14 Nov 08	Microsoft powerpoint	UPM
30 Oct 08	Scanning electron microscope	UPM
2-4 May 2008	PD bengkel MSEE	Guoman
7-9 Nov 2008	Bengkel Pelan strategic dan Halatuju Jabatan	Port Dickson
26 Nov 2008	Comsol Multiphysics	SEGI College
15-16 Dec	Symposium on Engineering and Tech	Kuching, Sarawak
	Bengkel Kimia	

2 Feb 2009	Basic Occupational FA and CPR	UPM
20 Mac 2009	Kursus Penampilan diri untuk kerjaya	UPM
20-22 May 2009	Aspen Plus Training	Singapore
5 May 2009	Bengkel Semakan Kurikulum	Pullman, Putrajaya
30 Oct – 1 Nov 2009	Bengkel Pembangunan Makmal Jabatan	Port Dickson
16-20 Nov 2009	PTK5	UPM
3 Dec 2009	Seminar Copyright and Technology Knowhow	Engineering Faculty
14-19 Dec 2009	Chemical Product design	Mines Wellness Hotel
22 April 2010	Kursus Etiket and Protokol	UPM
13 May 2010	Bengkel Penyeliaan Kuantitatif and Kualitatif	UPM
2 April 2010	Malaysia Technology Expo	KLCC
2 Aug 2010	World Engineering Congress 2010	Sarawak
19 May 2010	Seminar Scholarship of Teaching and Learning	UPM
3-4 Mac 2011	SPSS basic	Tera 2 Idec
9 April 2011	Responsive care talk by ir nordeen	Dewan seminar aras 2
7 April 2011	Bengkel penulisan business plan	Gallery 2, UPM, FK
28-29 April 2011	Teknik pembentangan berkesan	Faculty Ecology UPM
25 May 2011	Turnitin	Idec, upm
19-20 May 2011	SPSS lanjutan	IDEC
6-8 June 2011	Bengkel Penambahbaikan MSEE-ETM	Genting
13-15 Sept 2011	PECIPTA	KLCC
5-7 Nov 2011	Bengkel Halatuju Jabatan	Pullman
22 April 2010	Kursus Etiket and Protokol	UPM
3 Jan 2012	Seminar Photonic Lecture	Faculty of Engineering, Dewan Seminar
1-2 Feb 2012	Kursus Training for Trainers	UPM
3-5 Feb 2012	Bengkel Halatuju Jabatan	Melaka
10-12 Feb 2012	Bengkel Immersion Fakulti Kejuruteraan	Seremban
17-19 Feb 2012	Bengkel Penambahbaikan Program	Putrajaya
Jun 2013	AutoCAD Essential	UTM, Kuala Lumpur

18 Julai 2013	Kursus Mind Mapping For Teaching	UPM
25 Feb 2014	3 <sup>rd</sup> International Conference on Process Engineering and Advanced Materials	KLCC, Kuala Lumpur
26-27 July 2016	Subcritical Workshop: Theory and Applications	UPM
3-5 Jun 2017	Teaching With PutraBlast: Advanced	UPM
April 2017	ScreenCasting: Making Online Teaching Video	UPM
September 2017	Kursus Cabaran Urus Tadbir Sumber Manusia	UPM
Ogos 2017	Kursus Perlembagaan Universiti	UPM
September 2017	International Food Research Conference	UPM
13-16 Nov 2017	World Engineering Education Forum 2017	Berjaya Times Square, KL
26-28 Julai 2018	TM 3Ducation Hackathon	MAGIC Cyberjaya
13-15 Julai 2018	International Conference of Advanced Process and Material 2018 (ICPEAM 2018)	KLCC
Dis 2018	31 <sup>st</sup> Symposium of Malaysia Chemical Engineers	Hotel Istana, KL
21 Mac 2019	Program pendekatan pematuhan terhadap konvensyen senjata biologi dan toksin (ksbt) serta pelaksanaan biosekuriti	UPM
Mac 2019	Technology Enhanced Active Learning- CADE	UPM
15-17 April 2019	Bengkel Penghasilan STEM Low Cost Modul dan STEM Carnival	UPM, Persatuan Guru STEM
6 April 2019	Downstream Plant Training	INSTEP Terengganu
23 April 2019	Teaching Alternative Assessment	CADE, UPM
30 August 2019	Introduction to Data Analytics Workshop	NAWEM, Kuala Lumpur
16-17 October 2019	PutraInnocreative Carnival for teaching and learning (PICTL 2019).	UPM
July 2019	20 <sup>th</sup> World Conference on Applied Science, Engineering and Technology (WCASET 2019),	Holiday Inn, Kuala Lumpur
25-27 November 2019	2 <sup>nd</sup> International Research Conference and Innovation Exhibition 2019.	KSL Resort, Johor Bahru,
28 March 2020	Effective E Assessment	Webinar UPM CADE
30 March 2020	Online Learning Designer	Webinar UPM CADE

31 March 2020	Experiential E Learning	Webinar UPM CADE
2 April 2020	Publishing Your Own Video: Easy Guide For Beginners	Webinar UPM CADE
8 April 2020	Conducting Summative Assessment via E-Examination - Guidelines for Beginners	Webinar UPM CADE
10 April 2020	Developing Teaching E-portfolio using Adobe Portfolio	Webinar UPM CADE
16 April 2020	Effective Remote Teaching with Google Meet and Google Chrome Extension	Webinar UPM CADE
20 April 2020	Google Classroom for Teaching	Webinar UPM CADE
17 June 2020	How to get online students Actively Engaged	SEEM UTM, Webinar
18 June 2020	Microsoft Innovative Educator	Microsoft
2 July 2020	Preparing Open Book Examination for Engineering Course	SEEM UTM, Webinar
9 July 2020	Problem based learning for developing holistic future ready graduates	SEEM UTM, Webinar
6 August 2020	Engineering Education Research: Where do we start?	SEEM UTM, Webinar
24 July 2020	Photobook and Flipbook: Pelaporan Digital	UPM CADE
10 August 2020	Publish and Flourish: Becoming Prolific Writer	PERINTIS, Webinar
15 Jan 2021	Effective Remote Presentation for Online Learning	UPM CADE
15-16 February 2021	Values-Based Leadership and Values-Based Performance	AKEPT and IIUM
5 Mac 2021	Penaksiran Alternatif: Jom Kita Bina Rubrik Pengajaran Sendiri	CADE UPM
15 Mac 2021	Staying connected with remote learning through Microsoft teams and Office 365	Microsoft Malaysia
17 Mac 2021	Lesson Design with OneNote	Microsoft Malaysia
19 Mac 2021	High Impact Educational Practices: The Integrated Design Project	CADE UPM
19 Mac 2021	1. Windows 10 for Education 2. MIE Trainer: Training Academy 3. Crafting a collaborative learning environment with Class Teams 4. Microsoft Forms: Creating Authentic Assessment 5. Transform Learning with Microsoft Teams	Microsoft Malaysia
19 Mac 2021	Unravelling High Competence Leadership in Teaching and Learning	CADE, UPM
25 Mac 2021	Microsoft Edu Day	Microsoft Malaysia

25 Mac 2021	Effective Leadership and Interpersonal Skills: Industrial Perspective	Petronas and KKA
27 May 2022	Integrated Procedure for synthesis of algorithms for modelling of cyclic processes	UPM
8 August 2022	Life Cycle Assessment (LCA) for Chemical Engineers	Institution of Chemical Engineers
21 Oct 2022 – 16 Dec 2022	Microsoft National Learning Week	Microsoft Malaysia
7 Jan 2023	The art of communicating your expertise for laymen	IKRAM Akademia
14 Feb 2023	ChatGPT for Teaching and Learning	CADE, UPM
23 Feb 2023	PTG and SIM	CADE, UPM