



الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
يُونَيْتِي إِسْلَامًا ابْتِغَاءَ إِحْسَانٍ مِلِّيَّاتِيَا

CURRICULUM VITAE

Personal Data

Wan Wardatul Amani Binti Wan Salim
Assistant Professor
Kulliyah of Engineering
KOE Building,
International Islamic University Malaysia,
Jalan Gombak,
53100 Gombak,
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Academic Qualification

Biosensors / BioMEMS, Purdue University / West Lafayette, IN, United States, 2009.
Microtechnology and bioMEMS, University of Minnesota Twin Cities, MN, United States, 2003.
Electrical Engineering (Microtechnology), University of Minnesota Twin Cities, MN, United States, 2001.

Work / Administrative Experience

1 January 2018 - 30 June 2018	Deputy Director, Research Management Centre.
1 January 2017 - 31 December 2017	Deputy Director, Research Management Centre.
12 May 2014 - Present	Assistant Professor (DS51) , Kulliyah of Engineering.

Work Experience

In IIUM

Post : Assistant Professor (DS51)
Department : Kulliyah of Engineering
Date : 12 May 2014 - Present

Teaching Responsibilities

Course Title	Year
BIO NANOTECHNOLOGY	2018
BIONANOTECHNOLOGY	2014, 2015, 2016, 2017, 2018

Course Title	Year
BIOSENSORS	2014, 2015
MEMBRANE TECHNOLOGY	2018
NANOBIOTECHNOLOGY	2015, 2016, 2017
RESEARCH METHODOLOGY & SEMINAR IN BTE ENG (MIXED MODE)	2015, 2016, 2017
RESEARCH METHODOLOGY & SEMINAR IN BTE ENG (RESEARCH MODE)	2015, 2016, 2017
RESEARCH METHODOLOGY AND SEMINAR	2017
RESEARCH METHODOLOGY IN BIOTECHNOLOGY ENGIN	2014, 2015, 2016
THERMODYNAMICS	2014

Postgraduate Student Supervision

Ph.D (Main Supervisor)

- 1) Student : BENOUDJIT ABDELMOHSEN (G1720589)
Title : Multi-Low Sensor for The Continuous Monitoring of Green Algae Photosynthetic Activity for Aquaculture Application
Program : Doctor of Philosophy (Engineering)
Year & Status : - Present (On-going)

- 2) Student : NEDJAI RADHIA (G1616060)
Title : Graphene Based Amperometric Immunosensor for the Detection of Common Infections Campylobacter Species
Program : Doctor of Philosophy (Engineering)
Year & Status : - Present (On-going)

Ph.D (Co-Supervisor)

- 1) Student : ABDUL HAKIM AB RAHIM (G1530941)
Title : High Performance Supercapacitor /Battery Energy Storage System for High Ground Vehicles
Program : Doctor of Philosophy (Engineering)
Year & Status : - Present (On-going)

- 2) Student : NIK RASHIDA BINTI NIK ABDUL GHANI (G1816486)
Title : Modified Graphene Oxide Membrane for Removal of Heavy Metals from Wastewater
Program : Doctor of Philosophy (Engineering)
Year & Status : - Present (On-going)

Master (Main Supervisor)

Master (Main Supervisor)

- 1) Student : IHDA USWATUN SHALIAH BINTI SHOHIBUDDIN (G1812624)
Title : Solid-State Potassium-Ion Sensor for Monitoring Effect of Antiepileptic Drug on Mammalian Cell Ion-Channels
Program : Master of Science (Biotechnology Engineering)
Year & Status : - Present (On-going)
- 2) Student : NASTEHO ALI AHMED (G1520014)
Title : Development of a Portable Biosensor for Field Quantifying E-Coli 0157:H7
Program : Master of Science (Biotechnology Engineering)
Year & Status : - Present (On-going)
- 3) Student : NUR ALYA BATRISYA BINTI ISMAIL (G1625556)
Title : Graphene- Conductive Polymer Based Biosensor for Fasting Salivary Glucose Monitoring

Program : Master of Science (Biotechnology Engineering)
Year & Status : - Present (On-going)
- 4) Student : NURUL IZZATI BINTI RAMLI (G1724050)
Title : Development of Graphene-Conductive Polymer-based Non-Invasive Glucose Sensor
Program : Master of Science (Biotechnology Engineering)
Year & Status : - Present (On-going)
- 5) Student : FARRAH AIDA BINTI ARRIS (G1412284)
Title : OPTIMIZATION AND CHARACTERIZATION OF GRAPHENE NANOCOMPOSITES FOR GLUCOSE BIOSENSORS
Program : Master of Science (Biotechnology Engineering)
Year & Status : Graduated Date of Senate Endorsement : 31-Mar-2017
- 6) Student : BENOUDJIT ABDELMOHSEN (G1320493)
Title : ROBUST ELECTROCHEMICAL TRANSDUCER USING CONDUCTIVE POLYMER (PEDOT:PSS) COMPOSITE FOR GLUCOSE BIOSENSOR APPLICATION

Program : Master of Science (Biotechnology Engineering)
Year & Status : Graduated Date of Senate Endorsement : 28-Jul-2017
- 7) Student : FAHMI SANOBAR (G1417278)
Title : FABRICATION AND CHARACTERIZATION OF GRAPHENE-BASED IMMUNOSENSOR FOR E. COLI O157:H7 DETECTION

Program : Master of Science (Biotechnology Engineering)
Year & Status : Graduated Date of Senate Endorsement : 25-Aug-2017

Master (Main Supervisor)

8) Student : HABIBAH FARHANA BINTI ABDUL GUTHOOS (G1524584)
Title : CHARACTERIZATION OF REDUCED GRAPHENE OXIDE CONDUCTIVE POLYMER COMPOSITES TOWARDS THE DEVELOPMENT OF NON-INVASIVE GLUCOSE BIOSENSORS
Program : Master of Science (Biotechnology Engineering)
Year & Status : Graduated Date of Senate Endorsement : 06-Dec-2018

Master (Co-Supervisor)

- 1) Student : MUHAMAD HAFIZ FAZREN BIN ABDUL RAHMAN (G1712727)
Title : Development of Prediction Models using Quantifiable Parameters in a Non-Invasive Saliva-Based Glucose Biosensor
Program : Master of Science (Biotechnology Engineering)
Year & Status : - Present (On-going)
- 2) Student : SILVIA CHOWDHURY (G1227052)
Title : CORE-SHELL Ag@Pt METALIC NANOPARTICLES AS A TARGETED DRUG CARRIER FOR CANCER TREATMENT
Program : Master of Science (Mechatronics Engineering)
Year & Status : Graduated Date of Senate Endorsement : 28-Apr-2017
- 3) Student : LONG, JIAJIA (G1424324)
Title : POLY (4-VINYLPYRIDINE)/ GOLD NANOPARTICLE/GRAPHENE NANOCOMPOSITES FOR ENZYMATIC AMPEROMETRIC BIOSENSOR
Program : Master of Science (Biotechnology Engineering)
Year & Status : Graduated Date of Senate Endorsement : 26-May-2017
- 4) Student : FAKHRIAH BINTI FAKHIRRUDDIN (G1520868)
Title : ELECTRICITY GENERATION IN MICROBIAL FUEL CELL (MFC) BY *Ralstonia* spp. ISOLATED FROM RICE PADDY FIELD SOIL
Program : Master of Science (Biotechnology Engineering)
Year & Status : Graduated Date of Senate Endorsement : 28-Aug-2018

Research Projects

FRGS

Year	Project	Sponsor	Amount	Level of Involvement
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Research Projects

FRGS

Year	Project	Sponsor	Amount	Level of Involvement
2017 - Present	Fundamental study of blood glucose solution models using a novel stepped impedance RF sensor for improved continuous monitoring of diabetic patients		RM83,000	Co-Researcher
2017 - Present	Investigation of Electrosprayed Carbon-based Nanomaterials as Electrodes in Energy Storage Devices for Improved Microbial Fuel Cell		RM64,200	Principal Researcher
2017 - Present	Effectiveness of highly purified ANAE, a plant-esterase immobilized on Multi-walled Carbon Nanotube-Screen Printed Electrode as portable biosensor for the inhibition-based electrochemical detection of pesticides.		RM93,000	Co-Researcher
2016 - Present	A Qualitative Study on the Novel use of Electrical Stimulation for the Prevention of Pressure Ulcers due to Immobility	MOHE	RM58,300	Co-Researcher
2016 - Present	Development of bionanocomposite reinforced with sugarcane bagasse nanocellulose and incorporated with natural antimicrobial agent for food packaging applications	MOHE	RM74,000	Co-Researcher
2015-2018	Novel Theoretical Model of an electrochemical nanobiosensor for rapid detection of dengue	MOHE	RM87,200	Co-Researcher
2014-2017	Conducting Polymer Nanocomposite as Transducer Layer for a Robust Biochemical Microsensor	MOHE	RM145,000	Principal Researcher

IIUM Research Acculturation Grant Scheme (IRAGS)

Year	Project	Sponsor	Amount	Level of Involvement
- Present	Engineering ultrasmall gold-silver alloy nanoparticles for antimicrobial application.		RM20,000	Co-Researcher

PRGS

Year	Project	Sponsor	Amount	Level of Involvement
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Research Projects

PRGS

Year	Project	Sponsor	Amount	Level of Involvement
2016 - Present	Magnetic Blood Cells Microseparator for Segregating and Harvesting of Single Cell on Lab on Chip Platform	MOHE	RM106,000	Co-Researcher

RAGS

Year	Project	Sponsor	Amount	Level of Involvement
2014-2017	Electrochemical Characterization of Graphene-Nanoparticles-Cellulose Nanofibers Composites for the Development of Wearable Sensors	MOHE	RM76,100	Principal Researcher

Research Initiative Grant Scheme (RIGS)

Year	Project	Sponsor	Amount	Level of Involvement
2017 - Present	Investigating the development of ion selective electrode for e.coli O157:H7 detection		RM20,000	Co-Researcher
2016 - Present	Storage Capacity Studies of Carbon Nanotubes (CNT) in Energy Storage Applications	MOHE	RM20,000	Co-Researcher
2016 - Present	Validation Study of a Portable Biosensor Technology in Quantifying E. Coli in Filtered River Water	None	RM20,000	Principal Researcher
2015 - Present	Study of Three Dimensional Graphene Composites for Lead-supercapacitor Hybrid Battery System	MOHE	RM38,000	Co-Researcher

Research Initiative Grant Scheme - Post Doctoral Fellow (RIGS-PDF)

Year	Project	Sponsor	Amount	Level of Involvement
2018 - Present	Investigation of Electrosprayed Carbon-based Nanomaterials as Electrodes in Energy Storage Devices for Improved Microbial Fuel Cell	Universiti Islam Antarabangsa Malaysia	RM36,000	Principal Researcher

Sponsored Research

Year	Project	Sponsor	Amount	Level of Involvement
2018 - Present	Development and Clinical Trial Study of a Graphene-based Non-invasive Glucose Sensor	FDNANO VENTURES LTD	RM50,000	Principal Researcher

Research Projects

Sponsored Research

Year	Project	Sponsor	Amount	Level of Involvement
2018 - Present	Validation of Biosensor Technology Performance in Quantifying Pathogenic and Chemical Contamination for Assessment of Water Filtration System in Kelantan, Malaysia.	The Royal Society,	RM28,960	Principal Researcher
2015-2017	Graphene-based Immuno-Biosensor for In-situ Water Assessment	L'Oreal UNESCO	RM30,000	Principal Researcher

Publications

Book Section

- 1 Nurul Izzati Ramli, Nur Alya Batrisya Ismail, Mohd. Firdaus Abd. Wahab, Wan Wardatul Amani Wan Salim (2018) **Cyclic voltammetry and electrical impedance spectroscopy of electrodes modified with PEDOT:PSS-reduced graphene oxide composite**. In: Transparent conducting films. Intech Open, London, United Kingdom, pp. 1–10 . (In Press)
- 2 Michael A. Daniele, Maria Pedrero, Shaowei Ding, Jonathan C. Claussen, Stephanie Burrs, Prachee Chaturvedi, Wan Wardatul Amani Wan Salim, ...Susana Campuzano-Ruiz (2015) **Hybrid metallic nanoparticles: enhanced bioanalysis and biosensing via carbon nanotubes, graphene, and organic conjugation**. In: Nanobiosensor and Nanobioanalyses. Springer, Japan, pp. 137–166 . ISBN 978-4-431-55189-8

Article

- 1 Abdel Mohsen Benoudjit, Mamoun M. Bader, Wan Wardatul Amani Wan Salim (2018). **Study of electropolymerized PEDOT:PSS transducers for application as electrochemical sensors in aqueous media**. *Sensing and Biosensing Research*, 17. , 0 pp. 18–24. ISSN 2214-1804
- 2 Keamou M. Soropogui, Ahmad Tariq Jameel, Wan Wardatul Amani Wan Salim (2018). **Enzyme-based biosensors for electrochemical detection of pesticides – a mini review**. *Indonesian Journal of Electrical Engineering and Informatics (IJEI)*, 6 (2). , 0 pp. 161–171. ISSN 2089-3272
- 3 Habibah Farhana Abdul Guthoos, Nik Nurfatun Noorin, Nur Alya Batrisya Ismail, Afidalina Tumian, Wan Wardatul Amani Wan Salim (2018). **Effect of gold nanoparticles and electrode drying time on reduced graphene oxide-based composite with respect to peak current of cyclic voltammetry**. *ARNP Journal of Engineering and Applied Sciences*, 13 (4). , 0 pp. 1420–1426. ISSN 1819-6608
- 4 Habibah Farhana Abdul Guthoos, Nik Nurfatun Noorin, Nur Alya Batrisya Ismail, Afidalina Tumian, Wan Wardatul Amani Wan Salim (2018). **Effect of gold nanoparticles and electrode drying time on reduced graphene oxide-based composite with respect to peak current of cyclic voltammetry**. *ARNP Journal of Engineering and Applied Sciences*, 13 (4). , 0 pp. 1420–1426. ISSN 1819-6608
- 5 Thopatalam Emir Aslam, Abdel Mohsen Benoudjit, Ali Nasteho, Nur Alya Batrisya Ismail, Wan Wardatul Amani Wan Salim (2018). **Effectiveness of multi-walled carbon nanotubes and activated carbon for capturing E. coli 0157:H7 for application in water filtration**. *Journal of Engineering and Applied Sciences*, 13 (10). , 0 pp. 3582–3586. ISSN 1816-949x

Article

- 6 Fathilah Ali, Jijia Long, Wan Wardatul Amani Wan Salim (2017). **Electrochemical characterization of polylactic acid–block–poly (2–vinylpyridine)/gold nanoparticle composites for glucose biosensor development.** *IIUM Engineering Journal*, 18 (2). , 0 pp. 34–41. ISSN 1511–788X
- 7 Abdel Mohsen Benoudjit, Habibah Farhana Abdul Guthoos, Farrah Aida Arris, Wan Wardatul Amani Wan Salim (2017). **Pedot: PSS–modified platinum microelectrodes for measurements in aqueous media: Effect of polymer surface area on long–term anodic peak current stability.** *IIUM Engineering Journal*, 18 (2). , 0 pp. 11–15. ISSN 1511–788X
- 8 J.H. Park, Mari L. Salmi, Min Zhang, David Marshall Porterfield, Antonio J. Ricco, S. J. Roux, Jenna L. Rickus, ...A.T. Rademacher (2017). **An autonomous lab on a chip for space flight calibration of gravity–induced transcellular calcium polarization in single–cell fern spores.** *Lab on a chip*, 17 (6). , 0 pp. 1095–1103. ISSN 1473–0197
- 9 Fahmi Sanober, Siti Khadijah Ahmad, Wan Wardatul Amani Wan Salim (2017). **Nanomaterial biocompatibility and antimicrobial effects on Escherichia coli.** *Asia–Pacific Journal of Molecular Biology and Biotechnology*, 25 (1). , 0 pp. 1–4. ISSN 0128–7451
- 10 Silvia Chowdhury, Faridah Yusof, Wan Wardatul Amani Wan Salim, Nadzril Sulaiman, Mohammad Omer Faruck (2016). **An overview of drug delivery vehicles for cancer treatment: Nanocarriers and nanoparticles including photovoltaic nanoparticles.** *Journal of Photochemistry & Photobiology, B: Biology* (164). , 0 pp. 151–159. ISSN 1011–1344
- 11 Wan Wardatul Amani Wan Salim, Michael Anthony Zeitchek, David Marshall Porterfield, Andrew C. Hermann, Antonio J. Ricco, Ming Tan, Florian Selch, ...Brad M. Bebout (2013). **Multi–analyte biochip (MAB) based on all–solid–state Ion–selective electrodes (ASSISE) for Physiological Research.** *Journal of Visualized Experiments*, 74. , 0 ISSN 1940–087X
- 12 P. Chaturvedi, M. Taguchi, S. L Burns, B. A Hauser, Wan Wardatul Amani Wan Salim, J. C. Clausen, E. S Mclamore (2013). **Emerging technologies for non–invasive quantification of physiological oxygen transport in plants.** *Planta : An International Journal of Plant Biology*, 238 (3). , 0 pp. 599–614. ISSN 0032–0935
- 13 Wan Wardatul Amani Wan Salim, Joon Hyeong Park, Aeraj Ul Haque, David Marshall Porterfield (2013). **Lab–on–a–chip approaches for space–biology research .** *Recent Patents on Space Technology* , 3 (1). , 16 pp. 24–39. ISSN 2210–6871

Article

- 14 H. A Diefes-Dux, Wan Wardatul Amani Wan Salim (2012). **Transforming the first-year engineering experience through authentic problem-solving: taking a models and modeling perspective..** *Procedia Social and Behavioral Sciences Journal*, **56**. , 0 pp. 314-332. ISSN 1877-0428
- 15 Wan Wardatul Amani Wan Salim, Heidi A. Diefes-Dux (2012). **Problem Formulation within open-ended problems: looking through the structure, behavior, function (SBF) and novice-expert (NE) frameworks.** *Procedia Social and Behavioral Sciences Journal*, **56**. , 0 pp. 160-174. ISSN 1877-042
- 16 Zhenweng Ding, Wan Wardatul Amani Wan Salim, Babak Ziaie (2010). **Squeeze-film hydrogel deposition and dry micropatterning.** *Analytical Chemistry*, **82** (8). , 0 pp. 3377-3382. ISSN 0003-2700
- 17 Wan Wardatul Amani Wan Salim, Zenwen Ding, Babak Ziaie (2009). **Micromachined adjustable hydrogel stamper for soft printing of biomolecules with adjustable-feature dimensions..** *Analytical Chemistry*, **81** (11). , 0 pp. 4551-4554. ISSN 0003-2700
- 18 Zhenweng Ding, Wan Wardatul Amani Wan Salim, Babak Ziaie (2009). **Selective nanofibers patterning via electric field-enhanced electrospinning.** *Langmuir Letter*, **25** (17). , 0 pp. 9648-9652. ISSN 0743-7463
- 19 Wan Wardatul Amani Wan Salim, Chulwoo Son, Babak Ziaie (2008). **Selective nanofiber deposition via electrodynamic focusing.** *Nanotechnology*, **19** (37). , 0 pp. 1-8. ISSN 0957-4484

Conference

International (Keynote Speaker)

Dates	Title	Conference Name	Venue	Organizer
15-16 May 2017	Portable and versatile sensors for field work and humanitarian use	3rd ISTIC Biennial International Conference on Women in Science, Technology, and Innovation (STI). Innovative Solution by Women for UN Sustainable Development Goals 2016-2030	Seri Pacific, Kuala Lumpur	International Science, Technology and Innovation Centre for South-South Cooperation under the Auspices of UNESCO

International (Others)

Dates	Title	Conference Name	Venue	Organizer
19-20 September 2018	Quantifying E. coli O157:H7 via linear sweep voltammetry in phosphate buffered saline and tap water	Proceedings of the International Conference Biotechnology Engineering, ICBioE '18	International Islamic University Malaysia (IIUM), Gombak Campus, Kuala Lumpur	Kulliyah of Engineering International Islamic University Malaysia (IIUM) 50728 Kuala Lumpur Malaysia
3rd-6th Dec. 2018	Cyclic voltammetry and electrochemical impedance spectroscopy of partially reduced graphene oxide - PEDOT:PSS transducer for biochemical sensing	EEE-EMBS Conference on Biomedical Engineering and Sciences (IECBES 2018)	Kuching, Sarawak	IEEE Engineering in Medical and Biology Society
18th April 2018	Characterization of enzymatic glucose biosensor in buffer solution, in artificial saliva, and in potassium ferricyanide by linear sweep voltammetry	3rd International Sciences, Technology & Engineering Conference (ISTEC) 2018 - Material Chemistry	Penang, Malaysia	International Sciences, Technology & Engineering Conference (ISTEC)

International (Others)

Dates	Title	Conference Name	Venue	Organizer
13th-14th July 2018	Electrospun Poly (Vinyl Alcohol) (PVA) fiber mats as carriers for extract from agarwood branch	International Conference on Halal Innovation in Products and Services 2018 (i-CHIPS 2018)	Haat Yai, Songkhla, Thailand	INHART, IIUM and Halal Institute, Prince of Songkla University
28th-29th November 2017	Electricity generation in Microbial Fuel Cell (MFC) by bacterium isolated from rice paddy field soil	1st International Conference on Civil and Environmental Engineering (CENVIRON 2017)	Pulau Pinang	University Malaysia Perlis
20-21 March 2017	Design and fabrication of biochemical sensors: □ Innovative materials that enhance electrochemical transduction	Short Courses on Contaminated Land and Water, University of Manchester, UK	School of Earth and Environmental Science	University of Manchester, United Kingdom
30 November-3 December 2017	Nanomaterial/nano-based sensors for the halal industries	Thailand Halal Assembly 2017	Bangkok, Thailand	The Central Islamic Council of Thailand (CICOT) in collaboration with the Halal Standard Institute of Thailand (HSIT) and the Halal Science Center Chulalongkorn University (HSC-CU)
25th-27th July 2016	PEDOT: PSS composite deposited on a microplatinum electrode as a robust biosensor transducer for applications in liquid media	4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)	Kuala Lumpur	Kulliyah of Engineering, International Islamic University Malaysia
25th-27th July 2016	Electrochemical characterization of Graphene-based transducers for biosensor development	4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)	Kuala Lumpur	Kulliyah of Engineering, International Islamic University Malaysia

International (Others)

Dates	Title	Conference Name	Venue	Organizer
16th-20th August 2016	Characterizing graphene-modified electrodes for interfacing with Arduino®-based devices	38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society	Orlando, Florida	IEEE
25th-27th July 2016	Electrochemical characterization of polylactic acid-block-poly(2-vinylpyridine)/gold nanoparticle (aunp) composites for glucose biosensor development	4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)	Kuala Lumpur	Kulliyah of Engineering, International Islamic University Malaysia
25th-27th July 2016	Portable Arduino® platform for electrochemical sensors	4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)	Kuala Lumpur	Kulliyah of Engineering, International Islamic University Malaysia
6 - 8 December 2015	Ion-selective electrode biochip for applications in a liquid environment	International Conference for Innovation in Biomedical Engineering and Life Sciences (ICIBEL2015)	Putrajaya, Malaysia	Centre for Innovation in Medical Engineering (CIME) under Innovative Technology Research Cluster, University of Malaya
21st-22nd Oct. 2015	Extraction of microcrystalline cellulose (mcc) from cocoa pod husk via alkaline pretreatment combined with ultrasonication	28th Symposium of Malaysian Chemical Engineers (SOMChE 2015)	Palm Garden Hotel, IOI Resort Putrajaya	University Kebangsaan Malaysia
8-12 June 2014	Sporesat: a nanosatellite platform lab-on-a-chip system for investigating gravity threshold of fern-spore single-cell calcium ion currents□	Workshop on Solid-State Sensors, Actuators, and Microsystems	South Carolina USA	Transducer Research Foundation (TRF)

International (Others)

Dates	Title	Conference Name	Venue	Organizer
1st-5th June 2014	Operation of mobile sensors for monitoring municipal drinking water distribution systems	2014 World Environmental and Water Resources Congress Water Without Borders	Portland, Oregon, USA	World Environmental & Water Resources Congress
2013	Enhancing water distribution system security through water quality mobile sensor operation	World Environmental and Water Resources Congress 2013: Showcasing the Future	Cincinnati, Ohio, USA	World Environmental & Water Resources Congress
27th-31st October 2013	Self-powered mobile sensor for in-pipe potable water quality monitoring	The 17th International Conference on Miniaturized Systems for Chemistry and Life Science,	Freiburg, Germany	International Conference on Miniaturized Systems for Chemistry and Life Sciences (MicroTAS 2013)
20th-23rd June 2010	Graduate teaching assistants' assessment of students' problem formulation within model-eliciting activities	American Society of Engineering Education (ASEE) International Conference	Louisville, Kentucky	ASEE

International (Poster Presenter)

Dates	Title	Conference Name	Venue	Organizer
15th-19th November 2015	Low-cost microcontact printing for direct enzyme patterning on paper□	12th Asian Congress on Biotechnology (ACB 2015)	Istana Hotel, Kuala Lumpur, Malaysia.	Asian Federation of Biotechnology (AFOB)
15-19 November 2015	Electrochemical characterization of graphene nanocomposites for development of robust biosensor	12th Asian Congress on Biotechnology (ACB 2015)	Hotel Istana, Kuala Lumpur	Asian Federation of Biotechnology (AFOB)

International (Speaker)

Dates	Title	Conference Name	Venue	Organizer
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International (Speaker)

Dates	Title	Conference Name	Venue	Organizer
15-19 November 2015	Electrochemical sensor centrifuge platform for single-cell study□	12th Asian Congress on Biotechnology (ACB 2015)	Hotel Istana, Kuala Lumpur	Asian Federation of Biotechnology (AFOB)

University (Others)

Dates	Title	Conference Name	Venue	Organizer
25th-27th July 2016	Nanomaterial biocompatibility and antimicrobial effects on Escherichia coli	4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)	Kuala Lumpur	Kulliyyah of Engineering, International Islamic University Malaysia

Research Awards

University

Year Awards / Honours

2015 Bronze, Low Cost Microcontact Printing, International Research, Invention And Innovation Exhibition (Iriie 2015), Iium, Malaysia.

Service to the Community

Referee for Articles/Journal (where the staff is not a member of the editorial board)

Year	Journal	Organization
2018	International Conference in Biotechnology Engineering	ICBioE 2018 IIUM
2018 - 2019	Electron Device Letters	Institute of Electrical and Electronics Engineers (IEEE)
2018 - 2019	Applied Physics Letters	American Institute of Physics
2018 - 2019	Biotechnology Progress	Wiley
2018 - 2019	The Analyst	Royal Society of Chemistry
2017 - 2018	Biomedical Physics and Engineering Express	IOP Publications
2017 - 2018	IEEE Transactions in Biomedical Engineering	Institute of Electrical and Electronics Engineers (IEEE)
2015	8th Teaching and Learning Conference	Taylors University

Holding a Position in Professional Association

Year	Position	Organization
2015 - 2019	Member	Materials Research Society
2015 - 2016	Member	Material Research Society (MRS)
2015 - 2016	Member	Institute of Biological Engineering (IBE)

Holding a Position in Academic Association

Year	Position	Organization
2018	Member	Materials Research Society
2015 - 2018	Member	American Chemical Society

Examiner (Thesis)

Year	Description	Institution
2019	Mohd Afiq Bin Mohd Asri Development of Microfabrication Process for Cost-effective Rapid Prototyping of Electrochemical Microfluidics Biosensors	

Examiner (Thesis)

Year	Description	Institution
2017	Hamidah Binti Hassan Myco-coagulant Production from <i>Lentinus squarrosulus</i> RWF-5 Using Stirred Tank Bioreactor	

Organizing Conferences

Year	Position	Conference
2018	Member of Sponsorship Committee	2018 5th International Conference on Biotechnology Engineering
2017	Chairman	Pitch You Product
2015 - 2016	Chairman of Publicity/Promotion	2016 4th International Conference Biotechnology Engineering
2015 - 2016	Member of Sponsorship Committee	2016 4th International Conference Biotechnology Engineering
2015 - 2016	Chairman of Publicity	IIUM Engineering Congress 2016

Visiting Professor

Year	Position	Institution
2017	Visiting Professor	University of Manchester

Committee Member of Organization/Association/Event

Year	Position	Organization/Association/Event
2016	Organizing Committee	IIUM Chemical Engineering Car Competition National Organizing Committee

Committee Member of Staff Association

Year	Position	Committee / Association
2015	Committee (Research)	Academic Staff Association (ASA)

Member of Profesional Body / Association

Year	Description
2015 - 2016	Materials Research Society (MRS)
2015 - 2016	Institute of Biological Engineering (IBE)
2015 - 2016	American Chemical Society (ACS)

Academic Forum / Panel (on Television)

Year	Name of program
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Academic Forum / Panel (on Television)

Year	Name of program
2018	Agensi Remote Sensing Malaysia
2018	UTHM International Research and Innovation Symposium
2018	IKIM Young Muslim Forum
2018	Leave a Nest Malaysia Commercialization Talk
2018	IME Solidworks Innovation Day
2018	AKEPT ASEAN SCHOLARS FOR HIGHER EDUCATION
2018	UiTM Top Notch Research vs Creative Innovation
2018	AKEPT-AFLES Leadership Program
2018	Malaysian Society of Automation Engineers
2018	Johor International Student Leaders
2018	Penang Halal Conference
2017	UNITEN Inspirational talk
2017	Halal Bangkok
2017	Thailand HALAL Assembly
2017	UiTM Chit Chat Engineer
2017	UKM Dunia Pascasiswazah
2017	MOSTI Innovation and Creative Expo (NICE) 17
2017	Women in Engineering
2017	, 3rd ISTIC Biennial International Conference on Women in Science, Technology, and Innovation (STI). Innovative Solution by Women for UN Sustainable Development Goals 2016-2030
2017	Rotary Youth Leadership (RYLA)
2016	Malaysia Commercialization Year 2016
2016	Puteri Islam Malaysia
2016	Kolej Matrikulasi Pulau Pinang
2015	NONA
2015	EVE Summit: The Unconventional Route
2015	2015 PETRONAS Leading Women Network
2015	Google Seminar 3i
2015	Samsung Solve for Tomorrow
2015	ASTRO PRIMADONA
2015	TED EX KL
2015	ASTRO: V'BUZZ Interview
2015	Youth Ace Langit Illahi

Member of Advisory Board to the Government / Main Social Organization / Local University

Year	Position	Organization/Association/Institution
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Member of Advisory Board to the Government / Main Social Organization / Local University

Year	Position	Organization/Association/Institution
2015 - 2016	Organizing Committee National Level	Chem Engineering Car Competition, Board of Engineers Malaysia
2015 - 2016	Organizing Committee	Board Engineering Malaysia (BEM), 11th Malaysia Chem E Car Competition

Contribution to the Promotion of the University's Mission

2017 Involved in MYRA 2016 -2017AUDIT Exercise.

Courses / Trainings / Workshop Attended

- 1 RESEARCH & INNOVATION LECTURE SERIES NO. 1/2018: "INCULTURATING RESEARCH & INNOVATION" BY PROF. TAN SRI DATO' DZULKIFLI ABDUL RAZAK, CHAIRMAN, BOARD OF DIRECTORS, USIM, Office of the Deputy Rector (Research and Innovation), Senate Hall, Level 5, Rectory Building, 19/03/2018.
- 2 ACCELERATING IIUM TRANSFORMATION 2018-2020 WORKSHOP NO 1/2018, Office of Corporate Strategy, SENATE HALL, LEVEL 5, RECTOR BUILDING, 10/01/2018.
- 3 NATIONAL COLLOQUIUM ON REDESIGNING HIGHER EDUCATION 2017: EMPOWERING A QUADRUPLE HELIX ECOSYSTEM, Management Services Division, Senate Hall, Level 5, Rectory Building, 10/10/2017.
- 4 AL-LIQAA`AL- JAMAIE NO 3/2017 CUM MERDEKA MONTH CELEBRATION GOMBAK CAMPUS, Office of Corporate Communication, Cultural Activity Centre, 29/08/2017.
- 5 RMC IBADAH CAMP 2017: MODULE 4, Research Management Centre, Conference Room, RMC, 19/05/2017 to 20/05/2017.
- 6 WORKSHOP ON MYRA 2017 STRATEGIC PLANNING AND ACTION PLAN, Research Management Centre, Meeting Room 3, RMC, 17/05/2017.
- 7 ENTREPRENEURSHIP TRAINING FOR MANAGERIAL STAFF, Office of the Deputy Rector (Research and Innovation), Conference Room, Research Management Centre, 03/04/2017.
- 8 TA'ARUF & INTELLECTUAL DISCOURSE (TIDE) 46, Centre for Teaching and Learning (CTL), 01/08/2016 to 04/08/2016.
- 9 TRAINING THE TRAINERS: INTERNATIONAL FUNDING @ RESEARCHPROFESSIONAL.COM FOR HEAD OF RESEARCH (HOR), Research Management Centre, Conference Room, RMC, 13/04/2016.
- 10 AL LIQA AL-JAMAIE (NO. 1/2016), Office of Corporate Communication, Cultural Activity Centre, 05/02/2016.
- 11 AL LIQA' AL-SHAHRI (NO. 9/2015), Office of Corporate Communication, Cultural Activity Centre, 02/10/2015.
- 12 IIUM MERDEKA CELEBRATION/AL LIQA' AL-SHAHRI NO. 8/2015, Management Services Division, Cultural Activity Centre, 21/08/2015.
- 13 TALK ON MOSTI GRANT MANAGEMENT NO. 2 2015, Research Management Centre, 20/08/2015.
- 14 Al Liqa' Al-Shahri No. 3/2015, Office of Corporate Communication, Gombak, 20/03/2015.
- 15 Al-Liqa Al-Shahri No. 8/2014, Office of Corporate Communication, 01/12/2014 to 31/03/2015.
- 16 Workshop on Blooms Taxonomy (2014), 28/11/2014.
- 17 Al Liqa Al Shahri No. 7/2014, Office of Corporate Communication, 31/10/2014.
- 18 Usrah Series 149, 10/10/2014.
- 19 (CPD) iTa'Leem Basic Training (8th July 2014), 08/07/2014.
- 20 IIUM President's Premier Lecture/Al-Liqa' Al Shahri No. 4/2014, Office of Corporate Communication, 04/06/2014.
- 21 Usrah Series 142, 23/05/2014.
- 22 Al Liqa Al Shahri No. 3/2014, 16/05/2014.

Skills / Competency

Analytical/Research Skills
Communications Skills (listening, verbal, written)
Leadership/Management Skills
Problem-Solving/Reasoning/Creativity
Teamwork

Service Related Info

Staff No : 7116
Identification No : 780201-03-6158 (MyKad)
Citizenship : Malaysian
Date of Birth : 1 February 1978
Place of Birth : Kota Bharu
Birth State : Kelantan
Marital Status : Single
Gender : Female
Religion : Islam
Race : Malay
Present Address :

K/C/D//O: Kulliyyah of Engineering
Dept / Unit: DEPARTMENT OF BIOTECHNOLOGY ENGINEERING(K ENGINE-BIOTECH)
Campus : IIUM Gombak Campus
Title of Position / Designation : Assistant Professor
Grade of Present Position : DS51
Date of Present Appointment : 12 May 2014
Years of Service on Present Grade : 5
Job Status : Permanent (Full-time)
Staff Status : Active
Grade of First Appointment : DS51
Date of First Appointment (in IIUM) : 12 May 2014
Date of Confirmation in Service :
Compulsory Retirement Age : 60
Golden Hand Shake : 8
Date of Retirement : 1 February 2038
Date of BTN :
Place of BTN : -

Competency Level Assessment

Type of CLA	Start Date	End Date	Result	Overall Result	Endorsed Date

Leave Information

Academic Related Leave

No	Type of Leave	From	To	No of Days	Reason
1					

Service Related Leave

No	Type of Leave	From	To	No of Days	Reason
1					