



DR MOHAMAD FAHMI BIN HUSSIN @ MOHAMAD

ASSOCIATE PROFESSOR, CHARTERED ENGINEER, PROFESSIONAL
TECHNOLOGIST

PROFILE

Mohamad Fahmi Hussin graduated with BEng (Hons) in Electrical (Electronics) Engineering from Universiti Teknologi MARA (2004), MSc in Optoelectronic and Communications Engineering from Newcastle University (2006) and PhD in Engineering (Safety) from University of Aberdeen (2012). He has been a UiTM academic staff since 2006. At UiTM, he has held the position of Head of Department (Communication Engineering) and Deputy Dean of Student Affairs. Dr Fahmi was awarded Chartered Engineer (CEng) by The Institution of Engineering and Technology (IET UK) as well as Professional Technologist from the Malaysian Board of Technologist (MBoT) in 2018. He is also a Certified Psychological First Aider Trainer from the United Nation University. Dr Fahmi has published over 30 peer-reviewed journals in his research areas, of which he has received fundings of over RM2 million. His current H-Index is 11.

Contact
PHONE: 019-600 2964

WEBSITE:
<https://engineerfahmi0.wixsite.com>

EMAIL:
Fahmi478@uitm.edu.my
Engineerfahmi@hotmail.com

EDUCATION

University of Aberdeen, Aberdeen, Scotland (2008-2012)

PhD in Engineering (Safety)

Title: Knowledge and Skills Retention in Basic Offshore Safety and Emergency Training (B.O.S.E.T)

Northumbria University, Newcastle, United Kingdom (2004-2006)

MSc in Optoelectronics and Communication System Engineering

Title: Indium Phosphide Solar Cell and Characteristics

Universiti Teknologi MARA, Malaysia (1999 – 2004)

Degree in Electronics (Comm) Engineering

Diploma in Electrical (Electronics) Engineering

WORK EXPERIENCE (FULL TIME)

Universiti Teknologi MARA – Associate Professor (2019 – current)

Lecturing, Lab Tutoring, Conduct Research, Develop Curriculum, Industrial Consultancy, Community Linkages

Utechtium Sdn Bhd – Director (2015 - 2016), Consultant (2019- current)

Prepare proposals, Apply for Grants, Conduct Training

Universiti Teknologi MARA – Senior Lecturer/ Head of Department/ Deputy Dean of Student Affairs (2012 – 2019)

Lecturing, Conduct Research, Community Linkages

Universiti Teknologi MARA – Lecturer (2006 – 2007)

Lecturing, Lab Tutoring, Conduct Administrative work

RESEARCH

Chapter in book: 3, Journals: 35 (SCOPUS), H index = 11, I Index = 14, citations 394. Currently supervising 2 PhD students (Main and Co-supervisor). Supervised over 30 Final Year students (Bachelor's Degree) and 8 Masters students

WORK EXPERIENCE

Year	Position	Field of Work	Place of Work
2019 - current	Associate Professor	Admin, Teaching, Research and Consultancy	University Technology MARA (UiTM)
2017 - 2019	Deputy Dean of Student Affairs	Admin, Teaching, Research and Consultancy	University Technology MARA (UiTM)
2016 - 2017	Head of Department	Teaching, Research and Consultancy	University Technology MARA (UiTM)
2012 - 2016	Senior Lecturer	Teaching, Research and Consultancy	University Technology MARA (UiTM)
2011 - 2012	Lecturer	Teaching and Research	University Technology MARA (UiTM)
2008 - 2010	Tutor	Tutoring	University of Aberdeen
2006 -2007	Lecturer	Teaching and Research	University Technology MARA (UiTM)

WORK PERFORMANCE

Evaluation Year	Position	Average Score	Place of Work
2024	Associate Professor	87.66	Universiti Teknologi MARA
2023	Associate Professor	89.46	Universiti Teknologi MARA
2022	Associate Professor	91.92	Universiti Teknologi MARA
2021	Associate Professor	95.13	Universiti Teknologi MARA
2020	Associate Professor	95.00	Universiti Teknologi MARA
2019	Associate Professor	91.50	Universiti Teknologi MARA
2018	Deputy Dean (HEP)	97.25	Universiti Teknologi MARA
2017	Head of Department	97.15	Universiti Teknologi MARA
2016	Head of Department	97.25	Universiti Teknologi MARA
2015	Senior Lecturer	97.00	Universiti Teknologi MARA
2014	Senior Lecturer	91.18	Universiti Teknologi MARA
2013	Senior Lecturer	94.67	Universiti Teknologi MARA
2012	Senior Lecturer	90.13	Universiti Teknologi MARA
2011	Lecturer	80.67	Universiti Teknologi MARA

6 Malaysia Book of records holder (2015 – 2022) for the “Largest Simultaneous participation of children in a fire drill event”. He has served on International/ National Projects and Committees including:

- Executive Committee to Malaysia Society of Occupational Safety and Health (MSOSH)
- National technical committee for Non-Ionizing Hazard Committee (Ministry of Health)
- National technical committee for Machinery Safety (SIRIM).
- Adviser to Nano Satellite BIRDS 2 Program (UiTMSAT)
- Judging Panel for International Invention, Innovation and Technology Exhibition – MINDS

PUBLICATIONS

No	Chapter in Book
1	M. F. Hussin, B. Wang, S. Subahir, N. Ismail and R. Hipnie, “Skills Retention in Basic Offshore Safety and Emergency Training (BOSET),” in Proceedings of the Colloquium on Administrative Science and Technology, 2015, pp 383-390
2	S Khairilmizal, KA Husna, S Nuruliyana, MF Hussin, V Nathanael, AF Ashwin, NG Nur Fatin, “The Evolution of Emergency Management in Industry: The Process of Transitioning Physical to Virtual Emergency Operations Centers During the COVID-19 Pandemic in Malaysia”, 2024, Penerbit UPM.
3	M F Hussin, A A Sulaiman, A F Abidin, M F A Latip, I Ismail, “Perceptions of Non-Governmental Organization (NGO) Volunteers: Safety Procedures Under the Movement Control Order (MCO) in Malaysia”, 2024, Penerbit UPM

No	Journals
1	MR Maidin, MF Hussin , NAZ Zakaria, SAEA Rahim, K Samsudin, (2024) ,The Need for Integrated Crime Risk Assessment Systems Using Data-Driven Strategies for Crime Prevention in Malaysia, International Journal of Academic Research in Business and Social Sciences, Vol 14 (11), 996-1005
2	J Nathanael, S Khairilmizal, C Samuel, N Sansuddin, MF Hussin , (2024), Challenges in managing emergency offshore: A comparison of offshore and onshore perspectives, Journal of Loss Prevention in the Process Industries 88
3	S Khairilmizal, MF Hussin , K Alabdouli, AF Ashwin, KA Husna, AF Hashim, (2023) Criticality of Sustainable Disaster Management Through Communication, Situational Awareness, And Resource Management, Journal of Southwest Jiaotong University 58 (2)
4	Khairilmizal Samsudin, Nur Ezzate Mohamad Hatta, Zakaria Kassim, Md Khairul Azuan Che Azid, Mohd Aminorddin Darus Mohamed Noor, Mohamad Fahmi Hussin , Ainul Husna Kamarudin, Mohd Haikal Kasri, (2023) Evaluation of Embedding Learning Tool Of Active And Passive Fire Safety System For Undergraduate Studies Via Experts, Journal of Electrical and Electronic Systems Research (JEESR) 22, 36-43
5	Siti Fairus Mohd Zain, Ahamad Asari Sulaiman, Siti Munira Yasin, Mohammad Idris Zamhuri, Ahmad Fitri Abdullah Hair, Mohamad Fahmi Hussin , Ismaniza Ismail, (2023) Development Of Noise Induced Hearing Loss Prediction Model Using Levenberg Marquardt, Journal of Electrical and Electronic Systems Research (JEESR) 22, 11-18
6	S Khairilmizal, MF Hussin , MF Yusof, AM Azimie, AF Ashwin, KA Husna, Integrated Disaster Management System and Its Compliance with Disaster Management System Criteria, (2022) Journal of Southwest Jiaotong University 58 (1)
7	Khairilmizal Samsudin, Ainul Husna Kamarudin, Nur Hannani Abdul Ghani, Nur Fatin Najihah Ghazali, Mohd Haikal Kasri, Mohamad Fahmi Hussin , (2022) Job Stress Assessment Factors Among Malaysian Firefighters At High Response Rate Stations, Malaysian Journal of Public Health Medicine 22 (3), 191-199
8	Khairilmizal Samsudin, Fatin Najihah Ghazali, Nur Hannani Abdul Ghani, Mohamad Fahmi Hussin , Ainul Husna Kamarudin, Haikal Kasri, (2022) Effective Emergency Management: Scrutinizing the Malaysia Lead Responding Agency Planning and Information Management Approach During Disaster Exercise, Pertanika Journal of Science & Technology 30 (4), 2521-2534
9	Khairilmizal Samsudin, Mohamad Fahmi Hussin , Nur Fatin Najihah Ghazali, Nur Hannani Abdul Ghani, Ainul Husna Kamarudin, Nuruliyana Sansuddin, Zuhani Ismail Khan, Kamariah Hussein, (2021) Association Between Workload And Psychological Well-Being In Malaysia Elite Firefighter, Malaysian Journal of Public Health Medicine 21 (2), 374-381
10	Zuhani Ismail Khan, Norfarhana Abd Razak, Mohd Syuairi Mohd Abkahalisatul, Mohamad Fahmi Hussin , Nur Emileen Abd Rashid, Siti Amalina Enche Ab Rahim, The Effect of Electromagnetic Wave on Bees Behaviour, 2021 IEEE 12th Control and System Graduate Research Colloquium (ICSGRC), 287-292
11	Khairilmizal Samsudin, Nuruliyana Sansuddin, Mohamad Fahmi Hussin , NEA Rashid, Ainul Husna Kamarudin, Nor Ayu Zakaria, Nur Eizati Mohd Ali, Nur Fatin Najihah Ghazali, NHA Ghani, Evaluating User Satisfaction Towards E-Learning Platform During COVID-19 Crisis, International Journal of Academic Research in Business and Social Sciences
12	Khairilmizal Samsudin, Mohamad Fahmi Hussin , Ahmad Ihsan Mohd Yassin, Mohd Haikal Kasri, Abdul Razak Hussain (2020), Expert system development process of Integrated Disaster Management system for lead responding agency in Malaysia during response and early recovery phases, Journal of Electrical & Electronic Systems Research (JEESR) 16, 47-53

13	KKM Shariff, SAAA Rahim, MF Hussin , NAZ Zakaria, NEA Rashid, ZI Khan (2020), Opportunities and challenges for radar sensing for pandemics: COVID-19, <i>International Journal of Emerging Trends in Engineering Research</i>
14	S Khairilmizal, MF Hussin , K Ainul Husna, Haikal Kasri, AR Hussain, AIM Yassin (2020), Effective Emergency Management: The Roles of Knowledge and Practice of Command Structure for Lead Responding Agencies, <i>Global Business and Management Research</i> 12 (1), 33-41
15	S Khairilmizal, AIM Yassin, K Ainul Husna, Haikal Kasri, Jamil Saadun, M Fahmi Hussin (2020), Dissecting the Challenges of the Lead Responding Agency During Disaster Management Exercises, <i>Global Business and Management Research</i> 12 (1), 42-51
16	1. N Ripin, MSM Zaman, AA Sulaiman, NEA Rashid, MF Hussin (2018), Small and Compact Double E-shaped Meander Line Monopole Antenna for Forward Scatter Radar Network, <i>Journal of Telecommunication, Electronic and Computer Engineering (JTEC)</i> (10), 127-132
17	N Ripin, AA Sulaiman, NEA Rashid, M F Hussin , NN Ismail. (2017), A Miniaturized 878 MHz Slotted Meander Line Monopole Antenna, <i>Indonesian Journal of Electrical Engineering and Computer Science</i> 7 (1), 170-177
18	N Ripin, AA Sulaiman, NEA Rashid, M F Hussin , NN Ismail (2017), Simulation study of a small UHF printed monopole antenna for forward scatter radar network, <i>Advanced Science Letters</i> 23 (5), 4454-4457
19	S Khairilmizal, MF Hussin, KA Husna, AIM Yassin, MH Jusoh (2017), Criteria for an integrated disaster management system for lead responding agency in Malaysia, <i>Advanced Science Letters</i> 23 (5), 4278-4280
20	N Ripin, AA Sulaiman, NEA Rashid, M F Hussin , NN Ismail. (2017), Miniaturization of Fractal Printed Monopole Antenna and the Equivalent Circuit for Low Frequency Bands, <i>Advanced Science Letters</i> 23 (5), 3926-3929
21	N Ripin, AA Sulaiman, NEA Rashid, M F Hussin , NN Ismail. (2017), A Miniaturized 878 MHz Slotted Meander Line Monopole Antenna for Ultra High Frequency Applications, <i>Progress In Electromagnetics Research Letters</i> 67, 33-38.
22	S. Khairilmizal, M. F. Hussin , Ahmad Ihsan Mohd Yassin, K. Ainul Husna, Ahmad Asari Sulaiman, Mohamad Huzaimy Jusoh, and Mohd Haikal Kasri, (2016), Evolution of Disaster and Disaster Management Policy in Malaysia <i>Adv. Sci. Lett.</i> 22, 4209–4212
23	S. Khairilmizal, M. F. Hussin , Ahmad Ihsan Mohd Yassin, A. R. Hussain, K. Ainul Husna, Mohamad Huzaimy Jusoh, Ahmad Asari Sulaiman, Jamil Saadun, and Mohd Haikal Kasri (2016), Policy on Disaster Management in Malaysia: The Need of Supporting Governance, <i>Adv. Sci. Lett.</i> 22, 4213–4215
24	Khairilmizal, M. F. Hussin , K. Ainul Husna, A. I. M. Yassin, W. A. H. Wan Ahmad Syafiq, M. H. Jusoh, A. A. Sulaiman, J. Saadun S. (2016). The Need for an Integrated Disaster Management System for Lead Responding Agency in Malaysia During Response and Recovery Phase, <i>International Information Journal</i> , Vol.19, No.8(A), pp.3301-3306.
25	Khairilmizal, M. F. Hussin , K. Ainul Husna, A. I. M. Yassin, W. A. H. Wan Ahmad Syafiq, M. H. Jusoh, A. A. Sulaiman, J. Saadun S. (2016). Implementation of Disaster Management Policy in Malaysia and its Compliance Towards International Disaster Management Framework, <i>International Information Journal</i> , Vol.19, No.8(A), pp.3301-3306.
26	M F Hussin* , W Ahmad Syafiq Hilmi Wan Abdull Hamid*, Muhammad Asyraf Ahmad Zulfikri*, Ahmad Asari Sulaiman, Mohamad Huzaimy Jusoh (2016). IOS Safety Application For UiTM, <i>Journal of Engineering Science and Technology</i> , pp 97 - 105
27	Mohamad Huzaimy Bin Jusoh, Mohamad Fahmi Bin Hussin , Ahmad Asari Bin Sulaiman, Khairunnisa Nabilah Juhari, Nurunadiah Mohd. Noor (2016), "Development Of Small Range Soil Electrical Resistivity Meter Based On Wenner Configuration", <i>International Journal Of Simulation: Systems, Science & Technology</i> , United Kingdom Simulation Society, page no : 1, vol : 17, issues : 41
28	M. F. Hussin , M. H. Jusoh, A.A Sulaiman, R. Hipni (2015). Improved Water Entry Technique in Basic Offshore Safety and Emergency Training, <i>American-Eurasian Network for Scientific Information (AENSI) Journal</i> , Volume 9, Issue 27, pp 187-191 (ISSN: 1995-0756)
29	A.A Sulaiman, M. F. Hussin , M. H. Jusoh, D. S. Awang, K. Othman and M. H. M. Hasan (2015). Academic Performance through "Ready for Success (R4S)" Module at Faculty of Electrical Engineering, UiTM, <i>American-Eurasian Network for Scientific Information (AENSI) Journal</i> , Volume 9, Issue 27, pp 199-203 (ISSN: 1995-0756)
30	M. F. Hussin , A.A Sulaiman, M. H. Jusoh, M. Y. Yaacob and M. A. A. Zulfikri (2015). Deviation Analysis in Safety Using Iphone Application, <i>Australian Journal of Basic and Applied Sciences</i> , Volume 9, Issue 25, pp 145-148 (ISSN: 1991-8178)
31	M. F. Hussin , A.A Sulaiman, M. H. Jusoh, and S. A. Suhaimi (2015). Pool Power Trading Simulator for Ios As An Educational Tool, <i>Australian Journal of Basic and Applied Sciences</i> , Volume 9, Issue 25, pp 139-144 (ISSN: 1991-8178)
32	M. F. Hussin , M. H. Jusoh, A.A Sulaiman, and L. M. Zaidee (2015). Carbon Emission Trading Simulator Using iOS Apps For E-Learning, <i>Australian Journal of Basic and Applied Sciences</i> , Volume 9, Issue 25, pp 149-154 (ISSN: 1991-8178)

34	M. H. Jusoh, M. F. Jamali, A. F. Abidin, A. A. Sulaiman, and M. F. Hussin (2015). Wi-Fi and GSM Based Motion Sensor for Home Security System Application, IOP Conference Series: Material Science and Engineering (doi:10.1088/1757-899X/99/1/012010)
35	M. F. Hussin and B. Wang, (2010). Industrial Safety Perception among Post-Graduate Engineering Students, Journal of Knowledge-Based Systems, Volume 23, Issue 8, pp 769-771 (doi:10.1016/j.2010.04.013)

SKILLS

Microsoft Office (Words, Excel, Powerpoint), Prezi, Padlet, Slido, TradingView, VideoEditor, C++

PROJECT MANAGEMENT

- Initiated, planned, executed, and successfully monitored several national projects such as Malaysia Book of Records for the Largest Simultaneous Fire Drill Event for Children for five (6) consecutive years;
- Lectured Project Management in subjects such as “Engineers in Society” and “Professional Ethics and Leadership”
- Initiated several voluntary projects between government agencies and Non-Government Organizations such as Kembara Kitchen, FKE Welfare Club, Petaling Jaya Outdoor Expo and many more;
- Initiated, planned, executed the implementation of safety and health syllabus in Engineering courses as well as Applied Mathematics.
- Lead Tier 4 Research group – Applied Electromagnetic Research

PROFESSIONAL ASSOCIATIONS

No	Association
1	Graduate Engineer/ Registered with Board of Engineers Malaysia (BEM)
2	Chartered Engineer/ Member Institution of Engineering and Technology (MIET)
3	Member of Malaysian Invention and Design Society (MINDS)
4	Professional technologist/ Malaysia Board of Technologist (MBoT)
5	Member of International Association of Engineers (IAENG)

VOLUNTEERING ACTIVITIES

Year	Association
2024	Assistant Secretary – University of Aberdeen Alumni Association in Malaysia (UAAAM)
2020 - current	Volunteer under Kembara Kitchen Movement Control Order program. Assist in warehouse management, aid deliveries, raise fundings, covid SOP and training
2016 - current	Volunteer for Kembara Kitchen – provide Food and Beverages for First Responding Agency (BOMBA), Orphanages, Old Folk Homes
2016 - current	Raised funds for Rumah Amal Firdaus (Denai Alam, Shah Alam)
2011 – 2019	Raised funds for Rumah Aman Orphanage (Sec 2, Shah Alam) and Teratak Nur Barakah (Sec 24, Shah Alam), Trip to Zoo Negara with Teratak Nur Barakah

2008 – 2010	Voluntary Member of the Dirty Weekenders (Aberdeen, Scotland): Volunteered as a sheriff for the Baker Hughes 10 Km run, Volunteered to raise funds for Children's Charity at Oxfam and Sue Ryder Shop, Volunteered to raise funds for Children's Charity at Torchers Parade, Volunteered in the Aberdeen Christmas Light Parade
2005 – 2006	Voluntary Member of the Northumbria University Student Union Study Skills Trainer, facilitated several modules including Essay Writing, Problem Solving, Assertiveness Skills, Presentation Skills, Revision Techniques, Concentration Skills, Communication Skills, Meeting Skills, Time Management, Taking Initiative, Leadership, Motivation Skills, Team Working, Personal Development, chairing a Meeting, Stress Management and Building your Self Esteem.

RESOURCE PERSON (College of Engineering, UiTM)

1. Electromagnetic Theory
2. Introduction to Safety and Health
3. Applied Mathematics (Geometry, Calculus and Statistics)

LECTURED SUBJECTS

1. Circuit Analysis 1 (Bachelor's Degree)
2. Circuit Analysis 2 (Bachelor's Degree)
3. Circuit Analysis 3 (Bachelor's Degree)
4. Final Year Project 1 (Bachelor's Degree)
5. Final Year Project 2 (Bachelor's Degree)
6. Electromagnetic Theory (Bachelor's Degree)
7. Multimedia and Applications (Bachelor's Degree)
8. Engineers in Society (Bachelor's Degree)
9. Industrial Topic (Bachelor's Degree)
10. Leadership and Professional Ethics (Bachelor's Degree)
11. Introduction to Occupational Safety and Health (Bachelor's Degree)
12. Mobile and Satellite Communication Network (Master's Degree)
13. Final Year Project (Master's Degree)

LABORATORY WORK

1. Circuit Analysis Lab
2. Electronics Lab
3. Power Engineering Lab
4. High Voltage Lab
5. Amplitude Modulation Lab
6. Frequency Modulation Lab
7. Photonics Lab

COURSES DEVELOPED (COURSE INFORMATION, COURSE ASSESSMENT PLAN AND STUDENT LEARNING TIME)

1. Calculus for Engineering Technologist (Degree)
2. Geometry in Engineering Technology (Degree)
3. Numerical Techniques and Statistical Analysis for Technologist (Degree)
4. Introduction to Occupational Safety and Health (Degree)
5. Organization Management in Engineering (Masters)

* Safety in Childcare (Professional Certificate under Human Resources Development Fund)

* Sexual Harassment Prevention

* Hazard Identification, Risk Assessment, Risk Control (HIRARC)

CURRENT COMMITTEES

1. Vice-Chancellor Special Task Committee (University)
2. Grant Evaluating Committee (University)
3. UiTM Integrity Investigator (University)
4. UiTM Scientific Equipment Committee (University)
5. Academic Monitoring Committee (College)
6. Safety and Health Committee (College)
7. BTech Academic Committee (College)
8. Chairperson for PhD Viva Voce
9. JKR Nation Building Committee

EXTERNAL APPOINTMENTS

1. Board of Academics (MQA) – CONSIST College (since 2016)
2. Safety and Health Consultant – Utechium Sdn Bhd (since 2018)
3. Safety and Health Adviser – Persatuan Cakna Anak Malaysia, Persatuan Taska Negeri Selangor and several companies
4. Safety Consultant – Outdoor Expo (2023/ 2024)
5. External Advisor Universiti Sains Malaysia (Faculty of Health Science) 2024
6. PhD Thesis Evaluation Panel (Faculty of Health Science, Chemical Engineering)
7. Master's Thesis Evaluation Panel (UiTM Faculty of Chemical Engineering and Faculty of Applied Science)
8. Panel for International Women's Day (Indonesia) 2025

AWARDS in COMPETITIONS

Innovative Competitions: 1 Diamond, 9 Gold, 10 Silver and 13 Bronze at Innovation Awards (International and National)

ACADEMIC ACHIEVEMENTS

- Student Feedback Online (SuFO) consistently over 90% since 2015
- Peer Assessment for Lecturing – 98.67%

INTERESTS

1. Safety and Health
2. Engineering Education
3. Disaster and Risk Management
4. Electromagnetic Theory
5. Professional Ethics and Leadership

REFEREES

1. Professor Ir Ts Dr Ahmad Asari Sulaiman
Professor,
Engineering College (Electrical),
Engineering Complex,
UiTM Shah Alam, Malaysia.
Asari100@yahoo.com

2. Associate Professor Ir Dr Zuhani Ismail Khan
Engineering College (Electrical),
Engineering Complex,
UiTM Shah Alam, Malaysia.
zuhai629@uitm.edu.my

3. Professor Ir Ts Dr Mohamad Huzaimy Jusoh
Professor,
Engineering College (Electrical),
Engineering Complex,
UiTM Shah Alam, Malaysia.
Huzaimy@uitm.edu.my

SOCIAL MEDIA LINKS

LinkedIn: <https://www.linkedin.com/in/mohamad-fahmi-hussin-603976111/>

Google Scholar ID: <https://scholar.google.com/citations?user=joyIAiEAAAAJ&hl=en>

Researchgate: <https://www.researchgate.net/profile/Fahmi-Hussin>

Orchid ID: <https://orcid.org/0000-0003-4993-9441>