


CURRICULUM VITAE

i. PERSONAL PARTICULARS

Name	Dr. Wan Fahmin Faiz Bin Wan Ali  Research Interest <ul style="list-style-type: none"> - Advanced Materials - Solid State Interest - Dielectric and Magnetic Materials - Microwave Sintering - Dielectric Resonator Antenna (DRA)
Current Position	Senior Lecturer
Faculty / Department	Faculty of Mechanical Engineering, Department of Materials, Manufacturing and Industrial Engineering, Universiti Teknologi Malaysia (UTM)
Contact	+60179051967
Email	i- wan_fahmin@utm.my ii- wanfahminfaiz@mail.fkm.utm.my
Research ID	Google Scholar Citation Index: https://scholar.google.com/citations?user=mt87BDYAAAAJ&hl=en Research gate link: https://www.researchgate.net/profile/Wan_Fahmin_Faiz_Wan_Ali2 ORCID http://orcid.org/0000-0003-3935-0983

ii. ACADEMIC AND PROFESSIONAL QUALIFICATIONS

Year	Degree	Discipline / Thesis	University
2015	PhD	Advanced Materials <i>Response Surface Method Optimization for the Formation of Yttrium Iron Garnet And Its Kinetic Studies for Dielectric Resonator Antenna Application Made by Solid State Sintering</i>	Universiti Sains Malaysia (USM), Penang Malaysia
2011	MSc (CGPA: 3.83/4.00)	Materials Engineering <i>Synthesis and Characterization of High Dielectric Zirconate Based Materials Doped with Strontium via Sol-Gel Route for Dielectric Resonator Antenna Application</i>	Universiti Sains Malaysia (USM), Penang Malaysia
2010	BEng (Hons) (CGPA: 3.16/4.00)	Materials Engineering <i>Synthesis and Characterization of High Dielectric $Ba_{1-x}Nd_xTiO_3$ ($X = 0.07$) Films for Dielectric Resonator Antenna Applications.</i>	Universiti Sains Malaysia (USM), Penang Malaysia

iii. WORK EXPERIENCE

Year	Position	Field of Work	Place of Work
July 2016 – Present	Senior Lecturer	Teach and Research	Department of Materials, Manufacturing and Industrial Engineering, Faculty Mechanical Engineering, Universiti Teknologi Malaysia (UTM)
May 2016 – July 2016	Research Fellow	Research	Department of Fundamental and Applied Sciences, Universiti Teknologi PETRONAS (UTP)
Oct 2014 – April 2016	Research Officer	Research	School of Materials and Mineral Resources Engineering, Universiti Sains Malaysia (USM)
Aug 2011 – Dec 2011	Research Assistant	Research	School of Electrical and Electronics Engineering, Universiti Sains Malaysia (USM)

iv. PROFESSIONAL AFFILIATIONS

Membership	Professional Bodies	Membership No.
Graduate Member	Board of Engineer Malaysia (BEM)	69863A
Member	The Minerals, Metals and Materials Society (TMS)	526426
Lifetime Member	International Association of Engineers (IAENG)	173294
Lifetime Member	Institute of Materials Malaysia (IMM)	O-07161

v. HONORS AND AWARDS

Year	Honors and Awards
2011, 2013, 2015	USM - Sanggar Sanjung Award (Top 15% Journal – Category Publication)
2012	Golden Key International Honour Society Award (top 15% in University)
2011	Best student of USM Materials Engineering (Master of Science). (Mixmode Program)
2008 - 2010	Dean's List, School of Materials and Mineral Resources Engineering, USM (Undergraduate)
2007 - 2009	Commandant List (USM Reserve Officer Training Unit) (Undergraduate)

1.0. TEACHING AND SUPERVISION

1.1. Undergraduate Courses

No	Course Title	Semester	Year
1	Experimental Techniques	1	2016
2	Materials Science Laboratory	1	2016
3	Materials Science	2	2017

1.2. Supervision (*Master of Science*)

No	Name of student	Mode / Project title	Year	Status
1	Ikhwan Hafiz Hassan (Co-Supervisor)	Course work – The effect of alloy layer on the corrosion resistance of galvanized steel wire rod for offshore mooring and crane rope applications	2017	In progress
2	Mohd Hanif Naif (Co-Supervisor)	Course work - Stabilization of Zn-Al-Mg Coating for Mass Production	2017	In progress
3	Siti Suhailah Binti Khairullah (Co-Supervisor)	Course work – Effect of heat treatment to microstructure and mechanical properties of Al-Cu-Fe quasi crystal alloys	2016	In progress
4	Musfirah Binti Mokhtar (Co-Supervisor)	Research Mode - Investigation of the structural and mechanical properties of zirconia in the presence of silica for biomedical applications	2016	In progress

2.0. RESEARCH AND PUBLICATION

2.1. Research Projects

No	Title	Role	Source / Amount	Year	Status
1	Thermal cyclic behaviors of lanthanum zirconate based double ceramic layer thermal barrier coating on Inconel 625 for gas turbine engine application	Member	RM 17,940.00 Nippon Sheet Glass (NSG)	2017 - 2019	In progress
2	Thermodynamically and Kinetic Study of Solid State Reaction in Yttrium Iron Garnet System	Project Leader	RM 20,000.00 Research University Grant (GUP – Tier 2)	2016 - 2017	In progress
3	Yttrium Iron Garnet (YIG) as Magnetically Tunable Materials for Tunable Resonator	Project Leader	RM 7,725.00 (Postgraduate Research Grant Scheme (PRGS))	2012 - 2015	Completed

2.2. Publications

2.2.1. Papers/Poster Presentation

No	Authors, year, title, publisher/journal/conference, volume and number of pages	Level
1	Wan Fahmin Faiz Wan Ali , Norazharuddin Shah Abdullah, And Zainal Arifin Ahmad, 2016, Structural investigation of $Y_3Fe_{5-x}(x.Y)O_{12}$ ($X = 0.0, 0.3, 0.5, 1.0$; $Y = In^{3+}$ and Te^{3+}) Synthesized From Conventional Solid State Routes, International Conference on X-Rays and Related Techniques in Research and Industry 2016 (ICXRI2016) Dorsett Hotel, Putrajaya, 17-18 August 2016. Malaysia.	International
2	Invited speaker, Wan Fahmin Faiz , XRD workshop on Qualitative and Quantitative Analysis using X'Pert HighScore Plus Software organized by Postgraduate Club, School of Materials and Mineral Resources Engineering-USM (2016)	University
3	Mohamadariff Othman, Wan Fahmin Faiz Wan Ali , Mohd Fadzil Ain, Zainal Arifin Ahmad and Mastaneh Mokayef, 2015, Low Permittivity Dielectric Resonator Antenna (DRA) for Future 5G Applications, 12 th Malaysia International Conference on Communications (MICC) , IEEE-Antennas, Propagation and RF Design (MICC 2015), The Hilton Kuching, Sarawak, 23-25 November 2015, Malaysia.	International
4	Wan Fahmin Faiz Wan Ali , Norazharuddin Shah Abdullah, Mohd Fadzil Ain, Zainal Arifin Ahmad, 2015, Particle Size Effect on the YIG Formation made by Solid State Sintering, Advanced Materials Characterization in Research, Industry and Nuclear Applications 2015 (AMCT 2015), Palace of the Golden Horses, Seri Kembangan, Kuala Lumpur, 9-10 June 2015. Malaysia.	International
5	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Ihsan Zubir, Hasnul Hakimi Ahmad, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, Zainal Arifin Ahmad, 2014, Effect of the Addition CeO on the Structural, Microstructural and Dielectric Properties Polycrystalline YIG. International Conference on X-Rays and Related Techniques in Research and Industry 2014 (ICXRI2014) KSL Hotel, Johor Bahru, 11-13 August 2014. Malaysia.	International
6	Mohamadariff Othman, Mohd Fadzil Ain, Ihsan Ahmad Zubir, Wan Fahmin Faiz Wan Ali , Zainal Arifin Ahmad, 2013, Study on the Effect of Dielectric Structure to the Cylindrical Dielectric Resonator Antenna (DRA). 8 th International Conference on Robotics, Vision, Signal Processing, and Power Applications (ROVISP 2013), Park Royal Hotel, Penang 10-12 Nov 2013. Malaysia.	International
7	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, and Zainal Arifin Ahmad, 2013, The Size Effect of Fe_2O_3 Reveals Particle-Phase Chemistry in the Formation of YIG Ceramics by Solid State Reaction. 22 nd Scientific Conference of the Microscopy Society Malaysia (MSM2013), Primula Beach Hotel, Kuala Terengganu, Terengganu, 26–28 Nov. 2013, Malaysia.	National

8	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Nik Akmar Rejab, Mohd Zaid Abdullah, Arjuna Marzuki, Sabar Derita Hutagalung, Julie Juliewatty Mohamed, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, Zainal Arifin Ahmad, 2012, Electrical Properties of Ba _{0.3} Sr _{0.7} ZrO ₃ Thick Films Derived from Sol-gel Route at High Frequency Response (1MHz-1GHz). International Conference on X-Rays and Related Techniques in Research and Industry 2012 (ICXRI2012) Vistana Hotel, Penang 3-5 July 2012, Malaysia.	International
9	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, and Zainal Arifin Ahmad, 2012, Effect of The Firing Properties on Formation of YIG Prepared Through Simple Processing Technique, 2012, 21 st Scientific Conference of the Microscopy Society Malaysia (MSM2012), Renaissance Hotel, Kota Bharu, Kelantan 22–24 Nov. 2012, Malaysia.	National
10	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Mohd Fadzil Ain and Zainal Arifin Ahmad, 2012, Effect of Sintering Properties in the Formation of Yttrium Iron Garnet through Solid Phase Synthesis For Microwave Ferrite Resonator Antenna, Nuclear Science, Technology and Engineering Conference 2012 (NUSTEC2012), TNB Research, Kajang, Selangor 21-23 May 2012, Malaysia.	National

2.2.2. Book/Chapter in a Book

No	Authors, year, title, publisher/journal/conference, volume and number of pages	Level
1	Zainal Arifin Ahmad, Meor Yusoff Meor Sulaiman, Mohd Ambar Yarmo, Fauziah Abd Aziz, Khairul Nizar Ismail, Norazharuddin Shah Abdullah, Yusof Abdullah, Wan Fahmin Faiz Wan Ali , Nik Akmar Rejab, and Abdul Rashid Jamaludin, <i>Development and Investigation of Materials Using Modern Techniques</i> , Trans Tech Publications, Switzerland, 2016. (ISI/SCOPUS Cited Publication)	International

2.2.3. Journal Article

No	Authors, year, title, publisher/journal/conference, volume and number of pages	Level
1	Wan Fahmin Faiz Wan Ali , Maslinda Kamarudin, Norazharuddin Shah Abdullah, Zainal Arifin Ahmad, <i>Investigation of YIG's Active Site Using Density Functional Theory</i> , Materials Science Forum, Vol. 888 (2017), pg. 76-80. http://www.ttp.net/978-3-0357-1029-8/2.html	International
2	Rosyaini Afindi Zaman, Mohamad Johari Abu, Mohd Fariz Ab Rahman, Wan Fahmin Faiz Wan Ali , Julie Juliewatty Mohamed, Mohd Fadzil Ain, Zainal Arifin Ahmad, <i>Dielectric Properties of Al₂O₃/CaCu₃Ti₄O₁₂ Composite at High Frequency Range</i> , Materials Science Forum, Vol. 888 (2017), pg. 7-11, http://www.ttp.net/978-3-0357-1029-8/toc.html	International

3	Rosyaini Afindi Zaman, Wan Fahmin Faiz Wan Ali , Mohamad Johari Abu, Julie Juliewatty Mohamed, Mohd Fadzil Ain, Zainal Arifin Ahmad, <i>Role of mixing mediums in the synthesis of single phase $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ (CCTO)</i> , Journal of Ceramic Processing Research, (2016), Vol. 17, Pg. 626-631, http://jcpr.kbs-lab.co.kr/file/JCPR_vol.17_2016/JCPR17-6/20.2015-220_626-631.pdf	International
4	Wan Fahmin Faiz Wan Ali , Norazharuddin Shah Abdullah, Maslinda Kamarudin, Mohd Fadzil Ain, Zainal Arifin Ahmad, <i>Sintering and Grain Growth Control of High Dense YIG</i> , Ceramic International, (2016), Pg. 1-20, http://dx.doi.org/10.1016/j.ceramint.2016.06.004	International
5	Nik Akmar Rejab, Zhwan Dilshad Ibrahim Sktani, Tan Yong Dar, Wan Fahmin Faiz Wan Ali , Abdul Rashid Jamaludin, Zainal Arifin Ahmad, <i>The capability of hibonite elongated grains to influence physical, microstructural, and mechanical properties of zirconia toughened alumina–CeO_2–MgO ceramics</i> , International Journal of Refractory Metals and Hard Materials, (2016), Vol. 58, Pg 104–109, http://dx.doi.org/10.1016/j.jrmhm.2016.04.008	International
6	Wan Fahmin Faiz Wan Ali , Norazharuddin Shah Abdullah, Mohd Fadzil Ain and Zainal Arifin Ahmad, <i>Phase Evolution of Yttrium Iron Garnet (YIG) Made By Solid State Sintering: Particle Size Effect</i> , Materials Science Forum, (2016), Pages 276-280, doi:10.4028/www.scientific.net/MSF.840.276.	International
7	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, Zainal Arifin Ahmad, <i>The Investigation of the Phenomenological YIG Phase Formation Within 1000°C to 1250°C: A Kinetic Approach</i> , Journal of the American Ceramic Society, (2015), Pages 1-9 (doi: 10.1111/jace.13865).	International
8	Ubaid Ullah, Wan Fahmin Faiz Wan Ali , Mohd Fadzil Ain, Nor Muzlifah Mahyuddin, Zainal Arifin Ahmad, <i>Design of a Novel Dielectric Resonator Antenna using MgTiO_3–CoTiO_3 for Wideband Applications</i> , Materials & Design, (2015) vol. 85, Pages 396-403 (doi:10.1016/j.matdes.2015.07.026)	International
9	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, Zainal Arifin Ahmad, <i>From Optimization to Dielectric Resonator Antenna (DRA) Application of YIG: Synthesis Approach</i> . Journal of Alloys and Compounds, (2015) Vol. 645, Pages 541–552 (doi:10.1016/j.jallcom.2015.05.092)	International
10	Wan Fahmin Faiz Wan Ali , Hasnul Hakimi Jaafar, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, Zainal Arifin Ahmad, <i>Enhancement of YIG Bandwidth Efficiency through Ce-Doping for Dielectric Resonator Antenna (DRA) Applications</i> , Journal of Materials Science: Materials in Electronics (2015) (DOI:10.1007/s10854-014-2428-7)	International
11	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, Zainal Arifin Ahmad, <i>The Behavior of High Frequency Tunable Dielectric Resonator Antenna (DRA) with Addition of Excess Fe_2O_3 in $\text{Y}_3\text{Fe}_5\text{O}_{12}$ (YIG) Formulation</i> , Journal of Materials Science: Materials in Electronics, (2013), pg.1-13 (DOI 10.1007/s10854-013-1624-1)	International
12	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, Zainal Arifin Ahmad, <i>Studies on the Formation of Yttrium Iron Garnet (YIG) through Stoichiometry Modification Prepared by Conventional Solid-State Method</i> , Journal of the European Ceramic Society, (2013), Vol. 33, pg. 1317-1324. (http://dx.doi.org/10.1016/j.jeurceramsoc.2012.12.016)	International

13	Wan Fahmin Faiz Wan Ali , Nik Akmar Rejab, Mohamadariiff Othman, Mohd Fadzil Ain, Zainal Arifin Ahmad, <i>An Investigation of Dielectric Resonator Antenna Produced from Silicon (100) Enhanced by Strontium Doped-Barium Zirconate Films</i> . Journal of Sol-gel Science and Technology, (2012) Vol. 61, pg. 411-420. (DOI 10.1007/s10971-011-2641-2)	International
14	Nik Akmar Rejab, Mohamadariiff Othman Wan Fahmin Faiz Wan Ali , Mohd Fadzil Ain, Zainal Arifin Ahmad, <i>(Ba_{0.93}Nd_{0.07})TiO₃ Thin Films Prepared by Sol-Gel Method as a Potential Dielectric Resonator Antenna</i> , Journal of Sol-gel Science and Technology, (2011) Vol. 57 pg. 172-177. (DOI 10.1007/s10971-010-2338-y)	International
15	Wan Fahmin Faiz Wan Ali , Mohamadariiff Othman, Nik Akmar Rejab, Mohd Zaid Abdullah, Arjuna Marzuki, Sabar Derita Hutagalung, Julie Juliewatty Mohamed, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, and Zainal Arifin Ahmad, <i>Synthesis and Characterization of Ba_{0.3}Sr_{0.7}ZrO₃ Ceramic Thick Films Prepared By Sol-Gel Technique</i> , Advanced Materials Research, Vol. 620 (2013) pg. 435-439. (doi:10.4028/www.scientific.net/AMR.620.435)	International
16	Wan Fahmin Faiz Wan Ali , Hasnul Hakimi Jaafar, Mohamadariiff Othman, Mohd Ihsan Zubir, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, Zainal Arifin Ahmad. <i>Structural Properties of Cerium Substituted Yttrium Iron Garnet</i> . Advanced Materials Research, Vol. 187 (2015) pg. 157-161. doi:10.4028/www.scientific.net/AMR.1087.157	International
17	Wan Fahmin Faiz Wan Ali , Mohd Fadzil Ain and Zainal Arifin Ahmad, <i>Effect of Sintering Properties in The Formation of Yttrium Iron Garnet Through Solid Phase Synthesis For Microwave Ferrite Resonator Antenna</i> , Journal of Nuclear Science and Related Technologies, (2012) Vol. 9, No. 2, pg. 47-55. (JNRT2012-9-2-07.pdf)	National

2.2.4. Proceedings Articles

No	Authors, year, title, publisher/journal/conference, volume and number of pages	Level
1	Wan Fahmin Faiz Wan Ali , Norazharuddin Shah Abdullah, And Zainal Arifin Ahmad, "Structural investigation of Y ₃ Fe _{5-x} (x.Y)O ₁₂ (X = 0.0, 0.3, 0.5, 1.0; Y = In ³⁺ and Te ³⁺) Synthesized From Conventional Solid State Routes, Proceedings of the International Conference on X-Rays and Related Techniques in Research and Industry 2016 (ICXRI2016) Dorsett Hotel, Putrajaya, 17--18 August 2016.	International
2	Mohamadariiff Othman, Wan Fahmin Faiz Wan Ali , Mohd Fadzil Ain, Zainal Arifin Ahmad and Mastaneh Mokayef, "Low Permittivity Dielectric Resonator Antenna (DRA) for Future 5G Applications, Proceeding of the 12 th Malaysia International Conference on Communications (MICC) , IEEE-Antennas, Propagation and RF Design (MICC 2015), The Hilton Kuching, Sarawak, .23-25 November 2015.	International
3	Wan Fahmin Faiz Wan Ali , Norazharuddin Shah Abdullah, Mohd Fadzil Ain, Zainal Arifin Ahmad, <i>Particle Size Effect on the YIG Formation made by Solid State Sintering</i> , Proceeding of the Seminar on Advanced Materials Characterization in Research, Industry and Nuclear Applications 2015 (AMCT 2015), Palace of the Golden Horses, Seri Kembangan, Kuala Lumpur, 9-10 June 2015.	International

4	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Nik Akmar Rejab, Mohd Zaid Abdullah, Arjuna Marzuki, Sabar Derita Hutagalung, Julie Juliewatty Mohamed, Mohd Fadzil Ain, 5Norazharuddin Shah Abdullah, Zainal Arifin Ahmad. <i>Electrical properties of Ba_{0.3}Sr_{0.7}ZrO₃ Thick Films Derived from Sol-gel Route at High Frequency Response (1MHz-1GHz)</i> . Proceedings of the International Conference on X-Rays and Related Techniques in Research and Industry 2012 (ICXRI2012) Vistana Hotel, Penang 3-5 July 2012.	International
5	Mohamadariff Othman, Mohd Fadzil Ain, Ihsan Ahmad Zubir, Wan Fahmin Faiz Wan Ali , Zainal Arifin Ahmad, <i>Study on the Effect of Dielectric Structure to the Cylindrical Dielectric Resonator Antenna (DRA)</i> . Proceedings of the 8 th International Conference on Robotics, Vision, Signal Processing, and Power Applications (ROVISP 2013), Park Royal Hotel, Penang 10-12 Nov 2013.	International
6	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Ihsan Zubir, Hasnul Hakimi Ahmad, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, Zainal Arifin Ahmad. <i>Effect of the Addition CeO on the Structural, Microstructural, and Dielectric Properties Polycrystalline YIG</i> . Proceedings of the International Conference on X-Rays and Related Techniques in Research and Industry 2014 (ICXRI2014) KSL Hotel, Johor Baru, 11-13 August 2014.	International
7	Norazharuddin Shah Abdullah, Siti Kartini Enche Ab Rahim, Wan Fahmin Faiz Wan Ali , <i>Getting to Know Plagiarism. Buletin Enjineur</i> , School of Materials and Mineral Resources Engineering, USM-Engineering Campus, 14300 Nibong Tebal, Penang.	University
8	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, and Zainal Arifin Ahmad, <i>The Size Effect of Fe₂O₃ Reveals Particle-Phase Chemistry in the Formation of YIG Ceramics by Solid State Reaction</i> . Proceedings of the 22 nd Scientific Conference of the Microscopy Society Malaysia (MSM2013), Primula Beach Hotel, Kuala Terengganu, Terengganu, 26 –28 Nov. 2013	National
9	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Mohd Fadzil Ain, Norazharuddin Shah Abdullah, and Zainal Arifin Ahmad, <i>Effect of The Firing Properties on Formation of YIG Prepared Through Simple Processing Technique</i> . Proceedings of the 21 st Scientific Conference of the Microscopy Society Malaysia (MSM2012), Renaissance Hotel, Kota Bharu, Kelantan 22–24 Nov. 2012	National
10	Wan Fahmin Faiz Wan Ali , Mohamadariff Othman, Mohd Fadzil Ain, and Zainal Arifin Ahmad, <i>Effect of Sintering Properties in the Formation of Yttrium Iron Garnet through Solid Phase Synthesis For Microwave Ferrite Resonator Antenna</i> . Proceedings of Nuclear Science, Technology and Engineering Conference 2012 (NUSTEC2012), TNB Research, Kajang, Selangor 21-23 May 2012	National

3.0. ACADEMIC RECOGNITION AND LEADERSHIP, CONSULTANCY, SERVICE TO THE UNIVERSITY AND SERVICE TO THE COMMUNITY

(a) Academic Recognition and Leadership

No	Academic Recognition	Year	Level	Awarding body / name of institution
1	Internal Examiner for Master (Mixmode) Presentation	2016	University	Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM)

2	Internal Examiner Final Year Project	2016	University	Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM)
3	Reviewer	2016	International	6 th International Graduate Conference on Engineering, Science and Humanity (IGCESH'2016)
4	Reviewer	2016	International	International Conference on Education (ICOED'2016)
5	Reviewer	2016	International	International Conference on Computer and Communication Engineering (ICOCOE'2016)
6	Reviewer	2016	International	Advanced Research in Material Sciences, Manufacturing, Mechanical and Mechatronic Engineering Technology International Conference (AR4MET'2015-16)
7	Reviewer	2016	International	International Conference on Computer and Communication Engineering (ICOCOE'2016)
8	Referred Journal Reviewer	2016	International	International Journal of Electromagnetic Technology (IJET), 2016
9	Reviewer	2015	International	Seminar on Advanced Materials Characterization Techniques in Research, Industry, and Nuclear Applications (AMCT 2015).

(b) Service to the University

No	Position / membership	Committee	Duration
1	Institute Materials Malaysia Student Chapter (IMM-UTM)	Advisor	2017-2019
2	Coordinator for casting lab	Coordinator	2017-2019
3	Secretariat Member in Seminar on Advanced Materials Characterization Techniques in Research, Industry and Nuclear Applications (AMCT 2017), Awana Golf Resort, Genting Highlands, Pahang.	Technical, website and publicity	2017
4	Secretary in 3 rd Workshop on Sample Preparation and microstructural analysis	Secretary	2016
6	Member in Materials Research Consultancy Group of Frontier Materials	Research Member	2016
7	Secretariat Member in MoU Signing Ceremony between UTM – IMM	Secretariat	2016
8	Coordinator Final year project (Mechanical Materials)	Coordinator	2016-2018

9	Committee member (Task Force for Interim Audit (Engineering Accreditation Council, EAC) for Mechanical-Materials Program	Committee Member	2016
10	Secretariat Member in Seminar on Advanced Materials Characterization Techniques in Research, Industry and Nuclear Applications (AMCT 2015), Palace of the Golden Horses, Seri Kembangan, Selangor	Technical, website and publicity	2015
11	Laboratory Demonstrator for 1 st Year Student on Phase Identification using Hanawalt, Fink and Alphabetical Method (X-ray Diffraction Laboratory), School of Materials and Mineral Resources Engineering-USM (2015)	Demonstrator	2015
12	Sudoku Competition (Piala Professor Dr. Hj. Zainal Arifin Hj. Ahmad), at School of Materials & Mineral Resources Engineering, USM-Engineering Campus, Penang	Project Manager	2014-2015
13	KPI Committee Member in School of Materials & Mineral Resources Engineering, USM-Engineering Campus, Penang.	Committee Member	2014
14	Demonstrator for a group student from MRSM Transkrian's assisting them in samples preparation for Tunas Saintis Exhibition. Penang.	Demonstrator	2014
15	Laboratory Assistance for Mara Junior Science College Transkrian's student-Assisting them for Pesta Type III Competition on " <i>Rice husk-rubber composite for microwave absorber</i> " (Physical Laboratory) - School of Materials and Mineral Resources Engineering-USM. (2014)	Demonstrator	2014
16	Industrial Training Poster Judge at School of Materials and Mineral Resources Engineering-USM (2013)	Judge	2013
17	Laboratory Demonstrator for 3 rd Year Student on Microstructure and Hardness Testing (Metallography Laboratory), School of Materials and Mineral Resources Engineering-USM (2013)	Demonstrator	2013
18	Committee Member in Asian International Conference on Materials, Minerals, and Polymers (MAMIP2012). Vistana Hotel, Penang	Committee Member	2012
19	Technical Assistant in International Conference on X-rays and Related Techniques in industry and research (ICXRI2012). Vistana Hotel, Penang	Technical Assistant	2012
20	Tutor for 1 st Year Student on Materials Engineering subject at School of Materials and Mineral Resources Engineering-USM (2012)	Tutor	2012
21	Committee Member for the assessment of School of Materials and Mineral Resources Engineering-USM's Key Performance Index (KPI), (2011-2015)	Committee Member	2011-2015

(c) Service to the community

No	Level of Involvement	Activity	Venue	Duration
1	National	Community Service at Rumah Kebajikan Anak Yatim Islam, Kota Tinggi, Johor.	UTM	2017
2	National	Participate in I-Bantu Penang in assisting Kelantan and Perak's flood victims under IKRAM Malaysia	USM	2015
3	National	Committee Member in organizing "Workshop on Chili Planting through Fertigation Method",	USM	2011
4	National	Involved in a investigation of "Possible solutions for the poultry issues amongst Nibong Tebal residents, Mini Project,	USM	2010
5	National	USM Engineering volunteers in assisting Batu Pahat's flood victims under USM Engineering Campus Brigade, Batu Pahat, Johor.	USM	2007

4.0. OTHERS

(a) Skills

No.	Software	Level
1	Microsoft Office	Advanced User
2	Computer Simulation Technology Suite Studio (Antenna Simulation)	Intermediate User
3	Sigma Plot, Origin Pro	Advanced User
4	X'Pert HighScore Plus, EVA for XRD Analyses	Advanced User
5	Design Expert, Minitab for statistical design	Advanced User
6	Materials Studio Accelrys-CASTEP, FORCITE	Intermediate User
7	Sketchup Pro.	Beginner

(b) Language

No.	Language	Level
1	Bahasa Melayu (<i>Malay Language</i>)	Speaking/Writing/Reading
2	English Language	Speaking/Writing/Reading

5.0 REFERENCES

<p>Prof. Dr. Hj. Zainal Arifin Hj. Ahmad Professor in Ceramics School of Materials & Mineral Resources Engineering Universiti Sains Malaysia, (USM-Engineering Campus) 14300 Nibong Tebal, Penang, Malaysia.</p> <p>Phone: 04-5996128, Fax : 04-5941011 Mobile: 012-6671736 Email: srzainal@usm.my</p>	<p>Prof. Dr. Mohd Fadzil Ain Professor in Microwave Communications School of Electrical and Electronics Engineering Universiti Sains Malaysia (USM-Engineering Campus) 14300 Nibong Tebal, Penang, Malaysia.</p> <p>Phone: 04-5995815, Fax : 045941023 Mobile : 019-4316373 Email: eemfadzil@usm.my</p>
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