



PERSONAL DETAILS

Name : Assoc. Prof. Dr. Mohd Haizal bin Jamaluddin
Gender : Male
Date of Birth : 1st March 1981
Nationality : Malaysia
Marital Status : Married
Permanent Address : No. 27, Jalan PI 5/7, Taman Pulai Indah, 81110, Kangkar Pulai, Johor
Correspondent Address : Block P15, Wireless Communication Centre, UTM, 81310 UTM Johor
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Website : haizal.fke.utm.my
ID Staff : 9299
Expertise : Wireless Communication, Antenna Engineering, Dielectric Resonator Antenna, 4G, 5G
H-Index : 16

Publication links :

1. Researchgate

https://www.researchgate.net/profile/Mohd_haizal_Jamaluddin2

2. Google Scholar:

<https://scholar.google.com/citations?user=Khrhbp8AAAAJ&hl=en&oi=sra>

3. SCOPUS ID : 16021808600

<http://www.scopus.com/authid/detail.url?authorId=16021808600>

4. Research ID : L-4389-2013

<http://www.researcherid.com/rid/L-4389-2013>

5. ORCID : 0000-0002-1577-4047

<http://orcid.org/0000-0002-1577-4047>

ACADEMIC QUALIFICATIONS

- 2010 : Doctor of Engineering (PhD) in Signal Processing and Telecommunication, Universite de Rennes 1, France
2005 : Master of Engineering (M.Eng) in Electrical-Telecommunication Engineering, Universiti Teknologi Malaysia
2003 : Bachelor of Engineering (B. Eng (Hons)) in Electrical-Telecommunication Engineering, Universiti Teknologi Malaysia

AWARD AND HONORS RECEIVED

Research Awards

1. Best Paper Award – Applied Mechanics and Materials Conference (AMM 2015)
2. Best Poster/Project Award – Colloquium GUP 2016

Exhibition

1. Special Deputy Chancellor Award in Industrial and Art Exhibition (INATEX) 2016 – L-Shaped Dielectric Resonator Antenna for LTE Application
2. Gold medal Award in Industrial and Art Exhibition (INATEX) 2016 – L-Shaped Dielectric Resonator Antenna for LTE Application.
3. 4TH Place (awarded RM20,000 URIF Grant) – UTP Exhibition 2017 - L-Shaped Dielectric Resonator Antenna for LTE Application.
4. Silver Medal Award in Malaysia Technology Exhibition, PWTC, 2017 – L-Shaped Dielectric Resonator Antenna for LTE Application.
5. Silver Medal Award in PECIPTA 2017, Kuala Terengganu, Terengganu – L-Shaped Dielectric Resonator Antenna for LTE Application.
6. Silver Medal Award in Industrial and Art Exhibition (INATEX) 2018 – Reflectarray Antenna for 5G Applications.
7. Bronze Medal Award in Industrial and Art Exhibition (INATEX) 2018 – Higher Order Mode Dielectric resonator Antenna Array for 5G Applications.
8. Gold Medal Award in PECIPTA 2019, UTHM Batu Pahat, Johor – Reflectarray Antenna for 5G Communications

Competition

1. Advisor, 2nd IEEE Malaysia Final Year Project (FYP) Competition 2014

Others

1. Citra Karisma – Anugerah Perkhidmatan Cemerlang 2011
2. Keynote Speaker, Keynote Speaker of International Conference on Applied Electromagnetics (**APPEIC**) 2015
3. Invited Speaker - Asia Pacific Conference on Applied Electromagnetic (APACE 2016), Langkawi, Malaysia.
4. Keynote Speaker, Keynote Speaker of MEMA 2019
5. Citra Karisma – Anugerah Perkhidmatan Cemerlang 2018 (Olahragawan UTM)

Sports (Chess)

1. Represent UTM Chess Team from 2006 -2020
2. Represent Johor in MAKSAK Chess Competition (2010-2020). Team Gold Medal 2014
3. Champion – Team Event (SUKUM 2017, UPSI) and 1st runner Up– Team Event (SUKUM 2017, UMP)
4. 1st Runner Up – Individual Rapid Event (SUKUM 2017, UPSI) and 4th Place – Individual Rapid Event (SUKUM 2018, UMP)
5. 2nd Runner UP- Individual (UTM Open 2017 – Hari Sukan Negara)
6. Champion – Johor Close 2018
7. Best IPT – Malaysia Close 2018 (Perak)- Represent Johor
8. 2nd Runner Up – Team Event Malaysia Close (Perak) 2018 - Represent Johor
9. 1st Runner Up - Malaysia Interstate Team Event (Sabah) 2018 - Represent Johor

10. 1st Runner Up – Hari Sukan Negara Open Event 2018 (Pagoh, Johor)
11. 4th Place - MAKSAK Malaysia Team Event 2018 (Melaka) – Represent Johor
12. Best Government – Merdeka Team Event 2018 (KL)

PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

1. Member of Institute of Engineers Malaysia (IEM)
2. Institute of Electrical and Electric Engineers (IEEE)
3. IEEE Antennas and Propagation
4. IEEE Vehicular
5. Member Board of Engineers Malaysia (BEM)
6. The Institution of Engineering and Technology (IET)

ADMINISTRATIVE EXPERIENCE

FACULTY LEVEL

- | | |
|---|----------------|
| 1. Committee Taskforce – SKET Programme | present |
| 2. Committee Taskforce – Professional Body | 2016-2018 |
| 3. Subject Coordinator (RF Microwave and Circuit Design) | 2015 – present |
| 4. Head of WCC HiCoE (section A) Taskforce | 2014 – present |
| 5. Head of WCC Activity Taskforce | 2014 – present |
| 6. Vice President for Badan Kebajikan Staf FKE | 2015 - 2018 |
| 7. Organizing Committee Undergraduate Final Year Project Exhibition | 2010-2014 |
| 8. Committee for Badan Kebajikan Staf FKE | 2010-2015 |
| 9. Committee for How to get your self employed | 2011-2013 |
| 10. Committee of Self Assesment Report (SAR) | 2010-2011 |

UNIVERSITY LEVEL

- | | |
|---------------------------------------|---------------|
| 1. Secretary for UTM Staff Chess Club | 2010 –present |
| 2. Fellow of UTM College | 2017- 2018 |
| 3. College Principal | 2019- Present |

OTHERS EXPERIENCE

INTERNATIONAL APPOINTMENT/COMMITTEE

1. Conference Chair of International Conference on Communication and Computer Engineering (ICOCOE), 2016
2. Conference Chair of International Conference on Communication and Computer Engineering (ICOCOE), 2015
3. Conference Chair of Advanced Research in Electronic Engineering and Information Technology International Conference 2016
4. Visiting Lecturer, Universite de Rennes 1, France, 2015
5. Keynote Speaker of International Conference on Applied Electromagnetics (**APPEIC**) 2015
6. Committee member of Radio frequency Microwave Conference (RFM 2018)
7. Committee member of APACE 2019
8. Keynote Speaker of MEMA 2019

RESEARCH ACTIVITIES (GRANTS)

MOHE - FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS FUND)

1. **Project Leader**, Adaptive Beamforming Dielectric Resonator Antenna Algorithm With Higher Spatial Resolution Of The Electromagnetic Energy, VOT 4F733, 2Nov 2015 – 1Nov 2017, Budget approved **RM99,200**
2. **Project Member**, The Characterization Of Dielectric Resonator For Long Term Evolution Through The Investigation Of Electromagnetic Cavity, VOT 4F283, 16Dec 2013 – 16Dec 2015, Budget approved **RM 94,000**
3. **Project Member**, A New Phase Beamforming Algorithm For Future Mobile Ground Station Antennas, VOT 4F036, 1 Jan 2011 – 31Dec 2013, The budget approved is **RM 80,000**
4. **Project Member**, Biomimetic Soft Actuator Based Bionic Ribbon Fin Locomotion using FEM and CFD analysis, VOT 4F682, 1 February 2015 – 31Januari 2017, Budget approved **RM 150,000**

MOHE –EXPLORATORY RESEARCH GRANT SCHEME (ERGS FUND)

1. **Project Member**, Characterization Of Artificial Magnetic Conductors (Amc) Structure To Bandwidth Broadening And Gain Enhancement Of Low Profile Antennas, VOT 4L056, 15 July 2012 -14 June 2014, The budget approved is **RM 70,000**
2. **Project Member**, Exploration on the Use of Dynamic Region Boundary-Based Control Scheme for an Underwater Vehicle, VOT 4L049, 15 June 2012 – 14 June 2014, The budget approved is **RM 80,000**

MOHE – RESEARCH UNIVERSITY GRANT (GUP FUND)

1. **Project Leader**, Software Development Tool For Reflectarray Antenna, VOT 00J27, 1 April 2011 – 31 Oct 2012, The budget approved is **RM 40,000**
2. **Project Leader**, Design Of A Mimo Dielectric Resonator Antenna For Long Term Evolution Application, VOT 08J81, 1 Dec 2012 – 31 Dec 2013, The budget approved is **RM 50,000**
3. **Project Leader**, Design Implementation Of Dielectric Resonator Antenna For High Speed Mobile Devices Application, VOT 05H62, 1 Apr 2012 – 31 Mac 2014, The budget approved is **RM 94,000**
4. **Project Leader**, Development Of Dielectric Resonator Antenna Array For 5g Applications, VOT 13H26, 1 Jul 2016 – 30 Jun 2018, The Budget Approved Is **RM 50,000**
5. **Project Leader**, Adaptive Millimeterwave Reflectarray Antenna For Radar Application, VOT 19H56, 1 Feb 2018 – 31 Jan 2020, The budget approved is **RM 50,000**
6. **Project Member**, Novel Adaptive Channel Estimation Algorithm For Mobile Underwater Acoustic Autonomous Robot Communication System With Application To Disaster Response And Rescue Operations, VOT 08J69, 1 Dec 2012 – 31Dec2013, The budget approved is **RM 50,000**
7. **Project Member**, Application Of Artificial Neural Network To Switched Beam Smart Antenna, VOT 09H61, 1 Mei 2015 – 31 Oct 2016, The budget approved is **RM 50,000**
8. **Project Member**, Affine-Based Time-Scale Universal Wireless Channel Simulator For Stationary And Nonstationary Propagation Channels, VOT 02H31, 1 Apr 2011 – 31 Mac 2013, The budget approved is **RM 149,000**
9. **Project Member**, Switchable Antennas For Cognitive Radio Applications, VOT 01H00, 1 Apr 2011 – 31 Mac 2013, The budget approved is **RM 149,000**
10. **Project Member**, Rain Propagation Studies And Mitigation Technique At 26ghz And 5.8 Ghz For Point To Point Application., VOT 01H05, 1 Apr 2011 – 31 Mac 2013, The budget approved is **RM 149,000**
11. **Project Member**, Ultra Wide Band Butler Matrix Beam Forming Network Using Multilayer Technology, VOT 00H500, 1 Apr 2011 – 31 Mac 2013, The budget approved is **RM 142,000**
12. **Project Member**, Compact And Low Cost Planar Microwave Multi-Port Network For Uwb Applications, VOT 00J61, 1 Apr 2011 – 31 Jul 2012, The budget approved is **RM 40,000**

13. **Project Member**, Reconfigurable Coplanar Waveguide-Fed Two Arm Archimedean Spiral Slot Antenna, VOT 02H92, 1 May 2012 – 30Apr 2014, The budget approved is **RM 90,000**
14. **Project Member**, Reconfigurable Dual-Polarized Symmetrical Printed Yagi Antenna For Wireless On-Body Communication System (Woban), VOT 04H36, 1 Dec 2012 – 31Dec 2014, The budget approved is **RM 150,000**
15. **Project Member**, Multi-Operating Mode Antenna For Cognitive Radio System, VOT 04H83, 1 Dec 2012 – 31 Dec 2014, The budget approved is **RM 100,000**
16. **Project Member**, Inter-Carrier Interference Mitigation In Odfm Systems Using Eigenstructure Classified Pulse Shaping Under Novel Uncertainty Principle, VOT 05H00, 1 Dec 2012 – 31 Dec 2014, The budget approved is **RM 100,000**
17. **Project Member**, TRANSPARENT CO-PLANAR WAVEGUIDE DUAL BAND ANTENNA, VOT 04H42, 1 Dec 2012 – 31 Dec 2014, The budget approved is **RM 90,000**
18. **Project Member**, Design A Low Profiles Folded Reflectarray Antenna, VOT 08J51, 1 Dec 2012 – 31 Dec 2013, The budget approved is **RM 40,000**
19. **Project Member**, Wireless Power Transfer Design For Mobile Phone Application And Its Electromagnetic Exposure Effect To Human Body, VOT 08J72, 1 Dec 2012 – 31 Dec 2013, The budget approved is **RM 50,000**
20. **Project Member**, Design A Low Profiles Folded Reflectarray Antenna, VOT 08J51, 1 Dec 2012 – 31 Dec 2013, The budget approved is **RM 40,000**
21. **Project Member**, Wireless Power Transfer Design For Mobile Phone Application And Its Electromagnetic Exposure Effect To Human Body, VOT 08J72, 1 Dec 2012 – 31 Dec 2013, The budget approved is **RM 50,000**
22. **Project Member**, Design High Speed Mobile For Near Field Coupled Communication Systems And Wireless Energy Transfer, VOT 08H81, 1 Jul 2014 – 30 Jun 2015, The budget approved is **RM 20,000**
23. **Project Member**, Frequency Reconfigurable Rectangular Dielectric Resonator Antenna For Multiple Wireless Applications, VOT 08J51, 1 Apr 2014 – 31 Mac 2016, The budget approved is **RM 75,000**
24. **Project Member**, Unequal Size Of Witricity Device Design Through The Characterization Of Its Coupling Coefficient For Wireless Communication Applications, VOT 05H43, 1 Apr 2014 – 31 Mac 2016, The budget approved is **RM 95,000**
25. **Project Member**, Development Of Mimo Antenna For High Speed 5g Mobile Communication System, VOT 09H78, 1 May 2015 – 31 Oct 2016, The budget approved is **RM 49,700**

MOHE – FLAGSHIP FUND (RESEARCH UNIVERSITY GRANT)

1. **Project Member**, Development Of Pv Solar Harvest System, VOT 00G34, 1 Aug 2011 – 31 Jul 2014, The budget approved is **RM 178,400**
2. **Project Member**, Development Of Photovoltaic Film Technology, VOT 00G35, 1 Aug 2011 – 31 Jul 2014, The budget approved is **RM 178,400**
3. **Project Member**, Film Antenna Design, VOT 00G36, 1 Aug 2011 – 31 Jul 2014, The budget approved is **RM 178,400**
4. **Project Member**, The Characterization And Modeling Of Human Body Simulating Liquid For Electromagnetic Field Radiation Investigation, VOT 03G41, 15 Jan 2014 – 14 Jan 2016, The budget approved is **RM 50,000**
5. **Project Member**, Design Of Unequally Microstrip Linear Array Antenna For 5g Applications, VOT 03G33, 15 Jan 2014 – 14 Jan 2016, The budget approved is **RM 50,000**
6. **Project Leader**, Wideband Dielectric Resonator Antenna for 5G Application, VOT 03G59, 15 Sept 2016 – 14 Sept 2018, The budget approved is **RM 50,000**

MOHE – UTM Transdisciplinary Research Grant

26. **Project Leader**, UTM-TDR 7.2 (T1): Innovation Communication For Non-Contact Heart Monitoring Using Electromagnetic Wave, VOT 05G20, 1 Dec 2018 – 30 Nov 2020, The budget approved is **RM 80,000**

MOHE – NEW ACADEMIC STAFF (IRGS/Short Term)

1. **Project Leader**, Design of DRA reflectarray antenna at millimeterwaves frequency, VOT 00266, 15Nov 2009 – 14June 2011, Budget approved is **RM 20,000**

2. **Project Member**, Full Calibrated Multi-Port Reflectometer in Multilayer Microstrip-Slot Technologies, VOT, Dec 2009 – June 2012, Budget approved is **RM 20,000**
3. **Project Member**, Techniques To Improve The Bandwidth Of Microstrip Antenna VOT, 30 Jun 2000 – 29 June 2001, Budget approved is **RM 50,000**
4. **Project Member**, Time-Varying Ultra-Wideband Channel Characterization And Measurement For Infostation Environment, VOT 4D040, 1 Jul 2011 – 30 June 2012, Budget approved is **RM 30,000**
5. **Project Member**, Techniques To Improve The Bandwidth Of Microstrip Antenna, VOT, 30 Jun 2000 – 29 June 2001, Budget approved is **RM 50,000**

MOSTI – SCIENCE FUND

1. **Project Leader**, A MIMO Dielectric Resonator Antenna for LTE/LTE Advanced Application, VOT 4S071, 1 July 2013 – 6 June 2015, The budget approved is **RM 276,000**
2. **Project Leader**, DEVELOPMENT OF AN ADAPTIVE REFLECTARRAY 5G ANTENNA FOR USER TRACKING APPLICATIONS, VOT 4S134, 1 May 2017 – 30 Apr. 2020, The budget approved is **RM 280,000**
3. **Project Member**, A Software-Defined Ultra-Wideband Mobile Wireless Transceiver Based On Adaptive Channel Estimation Method Using Nonstationarity Channel Information, VOT 4S034, 1 July 2012 – 30 June 2014, The budget approved is **RM 278,394**
4. **Project Member**, Development Of Indoor Parameter Sensing Using Uwb-Based System, VOT 4S099, 1 Apr 2014 – 31 Mar 2016, Budget approved **RM 199,960**
5. **Project Member**, Design And Development Of Active Integrated Antenna For Wireless Lan System, VOT 4S071, 30 Dec 2000 – 29 Dec 2002, The budget approved is **RM 103,000**
6. **Project Member**, MIMO-OFDM Radio Over Fiber Integration For 4g Backhaul Heterogeneous Network, VOT 4S066, 1 Jun 2013 – 31 Jul 2015, The budget approved is **RM 265,700**

HiCoE FUNDS

1. **Project Leader**, Dielectric Resonator Antenna Array For 5g Application, VOT 4J220, Budget approved is **RM 119,910**
2. **Project Leader**, BEAM STEERED LINEAR ARRAY DIELECTRIC RESONATOR ANTENNA AT 26 GHz., VOT 4J415, Budget approved is **RM 85,000**
3. **Project member**, Thermal Effect Investigation Of Electromagnetic Field In Wireless Mobile Technologies Concerning Allowable Power And Radiation Safety, VOT 4J212, Budget approved is **RM 119,910**
4. **Project member**, Artificial Neural Network Based Antenna Beam Switching Algorithm For 5g Application, VOT 4J215, Budget approved is **RM 90,622**
5. **Project member**, Flexible Smart Antenna Beamforming Network For 5g Mobile Communication System, VOT 4J213, Budget approved is **RM 119,910**
6. **Project member**, Development Of Phase Array Antenna For 5g Applications, VOT 4J211, Budget approved is **RM 119,910**

INTERNATIONAL GRANT

1. **Project member**, Image guided Transbronchial Intervention Using Soft Actuator, AUN/SEED- Net Research Grant, 1 May 2015 - 30 April 2017. VOT 4B187. Budget given is **USD50,000 (RM180,000)**

INDUSTRIAL GRANT

1. **Project Leader** L-Shaped Dielectric Resonator Antenna for 5G Applications, 1 Aug 2017 – 31 Jul 2018, The budget approved is **RM 20,000 (From Universiti Teknologi Petronas)**

INTELLECTUAL PROPERTY

PATENTS (Patent Granted)

1. A Wideband Antenna –WO2015088321 (2013)

PATENTS (Patent Pending)

1. L-Shaped Dual Band Mimo Rectangular Dielectric Resonator Antenna – PI 2017704820 (2017)
2. An Mimo F-Shaped Dielectric Resonator Antenna – [PI 2015703010](#) (2015)
3. An Mimo Rectangular Dielectric Resonator Antenna – [PI 2015703011](#) (2017)
4. A Reflectarray Antenna For 5g Base Station Communications – PI 2020001824 (2020)

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1. Steerable Higher-order Mode Dielectric Resonator Antenna with Parasitic Elements for 5G Applications - LY2019008206 (2019)
2. Millimeter Wave Reflectarray Antenna for 5G Communication Systems - LY2019008205 (2019)

TEACHING ACTIVITIES

Kod Kursus	Semester / Sesi / Seksyen	Credit Hour
Elektronik (SEU2012)	1 - (2006/2007)Seksyen 2 2 - (2016/2017)Seksyen 2	2 credit*2sem = 4
Isyarat dan Rangkaian (SEE2043)	1 - (2010/2011)Seksyen 5 1 - (2011/2012)Seksyen 6	3 credit*2sem = 6
Prinsip Perhubungan (SEE3533)	2 - (2010/2011)Seksyen 5 1 - (2014/2015)Seksyen 6 1 - (2014/2015)Seksyen 10	3 credit *3sem = 9
Sistem Perhubungan Wayarles (SET4533)	2 - (2011/2012)Seksyen 1 2 - (2013/2014)Seksyen 1	3 credit *2sem = 6
Antena dan Perambatan (SET3593)	1 - (2013/2014)Seksyen 1	3credit *1sem = 3
Kejuruteraan Gelombang Mikro (SKET3573)	2 - (2014/2015)Seksyen 1 2 - (2014/2015)Seksyen2	3 credit *2 sem = 6
Rekabentuk Gelombang Mikro RF (SKET4543)	1 - (2015/2016)Seksyen 1 1 - (2016/2017)Seksyen 1 1 - (2017/2018)Seksyen 1 1 - (2018/2019)Seksyen 1 1 - (2019/2020)Seksyen 1 1 - (2020/2021)Seksyen 1	3 credit *5 sem = 15
RF/Gelombang Mikro dan Antena (MKET1433)	2 - (2015/2016)Seksyen 1 2 - (2017/2018)Seksyen 1	3 credit *2 sem = 6
Makmal Umum Tahun 4 (SKEL4722)	1 - (2015/2016)Seksyen 1	2 credit *1 sem = 2

Makmal Umum Tahun 3 (SKEE3732)	1 - (2016/2017)Seksyen 1	2 credit *1 sem = 2
Total		50 credits

SUPERVISION

PHD

No.	Name	Status	Title	Roles of Supervision
1	Dr. Jamal Nasir	Completed PhD 2016	A Multiple-Input Multiple-Output And Beamforming Linear Dielectric Resonator Antenna For Fourth-Generation Wireless Systems	Main Supervisor
2.	Dr. Lway Faisal Abdulrazak	Completed PhD 2011	Coexistence of IMT-Advanced System with the FSS Receiver in 3400-4200MHz Frequency Band	Co-supervisor
3.	Dr. Abdullah Saad Mohammed Al-Ahmadi	Completed PhD 2012	Multi-Floor Indoor Positioning System Using Bayesian Graphical Models	Co-supervisor
4.	Dr. Khairul Huda bt Yusof	Completed PhD 2016	Design Of Ultra Wideband Multi-Port Network Utilizing Slotted-Ground Technique For Wireless Communication Applications	Co-supervisor
5	Nur Fazreen Sallehuddin	Ongoing	Dielectric Resonator Antenna Reflectarray at millimeterwave	Main Supervisor
6	Dr Nor Hidayu bt Shahadan	Completed PhD 2018	Dielectric Resonator Antenna for 5G Application	Main Supervisor
7	Dr. Raghuraman Selvaraju	Completed PhD 2019	Microstrip CSSR for 5G Antenna	Main Supervisor
8	Dr. Muhammad Hashim Dahri	Completed PhD 2019	Reflectarray antenna for 5G System	Main Supervisor
9	Irfan Ali	Completed PhD 2020	Wideband antenna at millimeterwave applications.	Main Supervisor
10	Irene Cheng Koh Lin	Ongoing	4G MIMO Dielectric Resonator Antennas	Main Supervisor
11	Abinash Gaya	Ongoing	Dielectric Resonator Antenna at millimeterwave	Main Supervisor
12	Siti Norhafizah Sa don	Completed PhD 2020	Graphene Antenna for 5G Applications	Main Supervisor

13	Ali Dakhel Hussein	Ongoing	Dielectric Resonator Antenna at millimeterwave	Main Supervisor
14	Amjed Mahdi Challob	Ongoing	Dielectric Resonator Antenna at millimeterwave	Main Supervisor
15	Sahar Salleh (USM)	Ongoing	UWB Filter	Co-Supervisor
16	Hamizan Yeop (UiTM)	Ongoing	MIMO Antenna	Co-Supervisor
17	Rina (UiTM)	Ongoing	SIW Dielectric Resonator Antenna	Co-Supervisor

MASTER BY RESEARCH

No	Name	Status	Title	Roles of Supervision
1	Nur Izvani Dzulkpli	Completed M.Eng (Graduated - 2014)	Design And Characterisation Of Dielectric Resonator Reflectarray Antenna In Ku-Band	Main Supervisor
2.	Nuramirah Mohd Nor	Completed M. Eng (Graduated- 2016)	Dielectric Resonator Antenna Array at 28GHz	Main Supervisor
3	Afifah Taat	Completed M. Eng (Graduated- 2013)	Complimentary Antenna for WLAN Application	Co Supervisor
4.	Izni Husna	Completed M. Eng (Graduated- 2015)	WIDEBAND AND MULTIBAND ANTENNA WITH FREQUENCY RECONFIGURABILITY FOR MULTIMODE APPLICATIONS	Co Supervisor
5.	Siti Fairuz Roslan	Completed M. Eng (Graduated- 2015)	AN MIMO RECTANGULAR DIELECTRIC RESONATOR ANTENNA FOR LTE APPLICATIONS	Co Supervisor
6.	Siti Zareen Naqiyah Zool Ambia	Ongoing	Multiple Band Dielectric Resonator Antenna for 5G Application	Main Supervisor
7	Norshafina Shafie	Ongoing	Circular Polarization Dielectric Resonator Antenna for 5G Application	Main Supervisor
8	Low Ching Yu	Completed M. Eng (Graduated- 2018)	Pattern Reconfigurable Antenna for 5G Application	Main Supervisor

MASTER BY TAUGHT COURSE

No.	Name	Status	Title	Roles of Supervision
1	Guan Chai Eu	Completed M. Eng (Graduated – 2013)	Design of a Wideband Aperture Coupled Dielectric Resonator Antenna	Main Supervisor

2.	Syed Firdaus Syed Radzuan	Completed M. Eng (Graduated – 2013)	Dual Band Dielectric Resonator Antenna operates at 2.4 GHz and 5.4 GHz	Main Supervisor
3.	Amir Moazzami	Completed M. Eng (Graduated – 2012)	Design of a MIMO Dielectric Resonator Antenna for LTE Application	Main Supervisor
4.	Aminu	Completed M. Eng (Graduated – 2017)	Design of a Dielectric Resonator Antenna Array for 5G Application	Main Supervisor
5	Irene Kong	Completed M. Eng (Graduated – 2018)	Design of a MIMO Dielectric Resonator Antenna Array for 4G Application	Main Supervisor

INTERNAL/EXTERNAL EXAMINER MSC/PHD

INTERNAL EXAMINER :

No.	Name	Master/PHD YEAR	Title	FACULTY/UNIVERSITY
1	Muhammad Azrul Bin Abdullah	Master 2015	Wideband Complex Ratio Measuring Unit Design For Wireless Communication Applications	FKE,UTM
2	Noor Hafizah bt Sulaiman	Phd, 2018	Optimization of Interference Between Implanted Medical Devices And Wearable Antenna	FKE,UTM
4	Norsaidah binti Muhamad Nadzir	Master 2019	Flexible RFID Tag For Wireless Monitoring System	UTM

EXTERNAL EXAMINER :

No.	Name	MSC/PHD YEAR	Title	FACULTY/UNIVERSITY
1	Wan Noor Najwa Bte Wan Marzudi	Master 2015	Two-Element Printed Mimo Antennas For Wireless Applications	FKE,UTHM
2	Noor Faridah binti Amat	Master 2016	Fabrication of Solar Cloth using Titanium Dioxide (TiO ₂) Nanowires Based on Dye Sensitized Solar	Faculty of Electric and Computer Engineering, UTeM
3	Muhammad Syafiq bin Noor Azizi	Master 2017	Non-ionizing Electromagnetic Radiation effect on Nerve Fibre Potential of Human Body	Faculty of Electric and Computer Engineering, UTeM

PUBLICATIONS

JOURNAL (60 ISI and 36 SCOPUS)

ISI JOURNAL:

- 1) M. H. Jamaluddin, R. Gillard, R. Sauleau, P. Dumon and L. Le Coq, "Reflectarray element based on strip-loaded dielectric resonator antenna", *IET Electronics Letters*, Vol. 44 (11), May 22 2008, pp. 664-665. (IMPACT FACTOR: 1.140.Q2)
- 2) M. H. Jamaluddin, R. Gillard, R. Sauleau and M.-A. Milon, "Perturbation technique to Analyze Mutual Coupling in Reflectarrays", *IEEE Antennas and Wireless Propagation Letters*, 2009 (IMPACT FACTOR: 1.315.Q2)
- 3) T. Purnamiza, T. Abdul Rahman and M.H. Jamaluddin, "The Extreme Beamsquint Technique to Minimize the Reflection Coefficient of Very Small Aperture-Radial Line Slot Array Antennas", *Journal of Electromagnetic Waves and Application*, 2012 » (IMPACT FACTOR: 2.965.Q1)
- 4) Ahyat, E.N., Kamarudin, M.R., Abd. Rahman, T., Jamlos, M.F., Hamid, M.R., Jamaluddin, M.H., Ramli, N.H., "Frequency and Pattern Reconfigurable Dipole-Yagi Antenna", *Microwave and Optical Technology Letters*, Volume 55, No 2, Feb 2013 (IMPACT FACTOR: 0.585.Q3)
- 5) M. H. Jamaluddin, T. A. Rahman, H. Mohamad, N. Ramli and M. T. Islam, "Wideband Planar U-Shaped Monopole Antenna with Meandering Technique for TV White Space Application", *Radioengineering*, Vol. 22, No. 3, Sept 2013 (IMPACT FACTOR: 0.687.Q3)
- 6) M. Khalily, M.R. Kamarudin and M.H. Jamaluddin, "A Novel Square Dielectric Resonator Antenna with Two Unequal Inclined Slits for Wideband Circular Polarization", *IEEE Antennas and Wireless Propagation Letters*, Vol 12, Page (s): 1256 - 1256, October 2013 (IMPACT FACTOR: 1.667.Q2)
- 7) Idris, I. H., Hamid, M.R., Jamaluddin, M.H., Rahim M. K. A., Kassim, N. M., Majid, H.A., Mohamad, H., "Multi-Narrowband Reconfigurable Slot Dipole Antenna", *Microwave and Optical Technology Letters*, vol. 56, no. 3, pp. 735-740, 2014 (IMPACT FACTOR: 0.623.Q4)
- 8) Roslan, S.F., Kamarudin, M.R., Khalili, M, and Jamaluddin, M.H. "A MIMO Rectangular Dielectric Resonator Antenna for 4G Applications", *IEEE Antennas and Wireless Propagation Letters*, Vol: 13, Page (s): 321-324, February 2014 (IMPACT FACTOR: 1.667.Q2)
- 9) M. Khalily, M.R. Kamarudin and M.H. Jamaluddin, "Omni-Directional Circularly Polarized Dielectric Resonator Antenna for 5.2 GHz WLAN Applications", *IEEE Antennas and Wireless Propagation Letters*, Vol: 13, Page (s): 443-446, March 2014 (IMPACT FACTOR: 1.667.Q2)
- 10) I. H. Idris, M. R.A.Hamid, M.H. Jamaluddin, M. K. A. Rahim, J. R. Kelly and H. A. Majid, "Single-, Dual- and Triple band Reconfigurable Antenna", *Radioengineering*, Vol. 23, No. 3, Sept 2013 (IMPACT FACTOR: 0.796.Q3)
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1. **Mohd Haizal Jamaluddin**, Design and Characterization of Dielectric Resonator Antenna Reflectarray in Ka-Band Application, Ph. D. Thesis, Universite de Rennes 1, France (2010).
2. **Mohd Haizal Jamaluddin**, Direct Conversion Receiver for WLAN Application, Master Thesis, Universiti Teknologi Malaysia (2006)

BOOK CHAPTER

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KEYNOTE

KEYNOTE/INVITED SPEAKER

1. Keynote Speaker

1. **MH Jamaluddin**, "Research on Dielectric Resonator Antenna at Wireless Communication Centre", International Conference on Applied Electromagnetics (**APPEIC**) 2015
2. MH Jamaluddin "Reflectarray Antenna for 5G Applications" 2019 International Conference on

Mechanical, Electrical and Material Application (MEMA 2019)

2. Invited Speaker

1. **MH Jamaluddin**, “Size Reduction of MIMO Dielectric Resonator Antenna for LTE Application”, APACE 2016, Malaysia,, Dec 2016

INVITED/GUEST SPEAKER

1. Visiting Senior Lecturer in Universite de Rennes 1, France – Antenna Sharing 2015
2. Invited Lecturer at Multimedia University Malaysia–Wireless Talk ,2016
3. Invited Lecturer at UniMAP–How to Publish in high impact journal ,2018
4. Invited Lecturer at USIM–How to Publish in high impact journal ,2020

LINKAGES

MEMORANDUM OF UNDERSTANDING (MOU)

1. Manage MOU –Universite de Rennes 1, Rennes, France and Universiti Teknologi Malaysia (UTM)
2. Manage MOU - Universiti Telekom Sdn. Bhd. and Universiti Teknologi Malaysia (UTM)
3. Involved in MOU – Ericsson and Universiti Teknologi Malaysia (UTM)

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