CURRICULUM VITAE

PERSONAL DETAILS

Name	:	Prof. Ir. Dr. Sharul Kamal Bin Abdul Rahim
Gender	:	Male
Date of Birth	:	22 July 1973
Nationality	:	Malaysian
Marital Status	:	Married
Permanent Address	:	12E, Jalan Mariamah, 80100, Johor Bahru, Johor
Correspondent Address	:	12E, Jalan Mariamah, 80100, Johor Bahru. Johor

Tel : (Mobile) : 0127282711 (Office): 075535227 (Fax): 07-5535252
E-mail : sharulkamal@fke.utm.my, sharulkamal@utm.my
Website : http://sharulkamal.fke.utm.my/home
ID Staff : 8803

Expertise : Microwave, Antenna, RF Front-end Design

ACADEMIC QUALIFICATIONS

2007	:	Ph.D. University of Birmingham, United Kingdom
2001	:	M.Sc. Universiti Teknologi Malaysia, Malaysia.
1996	:	B. Sc. Universiti of Tennessee, USA.

INDUSTRIAL EXPERIENCE

1998-1999	**Quality Assurance (QA) Engineer** Tru-Tech Electronic (M) Sdn Bhd, Johor, Malaysia. (Controlled the Quality of the Output Products by conducting Testing: RF Test and Acoustic Test) (Prepared Standard of Procedure (SOP) for the QA Department) (Audited the Production line to ensure follow the standard SOP)
1997-1998	**Strategic Network Planning Engineer** MAXIS Communication, Kuala Lumpur, Malaysia. (Planned the capacity of the Trunk Networks for Peninsular Malaysia, Sabah and Sarawak: Satellite link and Fiber Optic) (Evaluated the existing MAXIS Trunk Network) (Advisor to the Operation Department)
1996-1997	**Engineer** Epson Precision (Johor) Sdn Bhd (Reviewed the Production Processes)

AWARD AND HONORS RECEIVED

INTERNATIONAL AWARDS = 8
NATIONAL AWARDS = 18
AWARDS KECEMERLANGAN = 12
UTM AWARDS = 18

2019	1. Anugerah Buku Karya Asli Citra Karisma 2. Anugerah Penulis dalam Jurnal Berindex 3. Anugerah Perkhidmatan Cemerlang Jabatan Hal Ehwal Pelajar 4. Anugerah Permata Cemerlang Jabatan Hal Ehwal Pelajar 5. Best Paper Awards IEEE APMTTEMC 6. Finalis Anugerah Pengetua Cemerlang 7. Sijil Perkhidmatan Cemerlang Fakulti Kejuruteraan 2019
2018	1. Top Research Scientist Malaysia (TRSM) 2018 2. Citra Karisma Anugerah Penulis Dalam Journal Berindex Kategori COE 3. Best Paper Award IEEE APMTTEMC Chapter 4. Anugerah Penyelidik Fakulti Kejuruteraan Elektrik (FKE) 2018 5. Anugerah Penerbitan jurnal ISI (Q1 dan Q2) FKE 2018 6. Anugerah Geran Penyelidikan Industri FKE 2018 7. Anugerah Khidmat Cemerlang FKE 2018
2017	1. Bronze Medal PECIPTA 2017, “Compact Circularly Polarized Filtenna for Wireless Power Applications”
2016	1. Citra Karisma Anugerah Penerbitan : Anugerah penulis Jurnal Berindex COE. 2. Bronze Medal, MTE 2016, “Compact UWB Antenna with Dual Band Rejection for Industrial Rejection ”. 3. Bronze Medal, MTE 2016, “Transparent Beamforming Network Using Micro Metal Mesh Conductive Film ”. 4. FKE Anugerah Khidmat Cemerlang. 5. FKE Anugerah Khidmat Penyelidikan. 6. FKE Anugerah Khidmat Penerbitan. 7. Anugerah Pembentang Terbaik Geran GUP RM20,000. 8. IEEE MTT-S Chapter Education Awards
2015	1. Silver Medal PECIPTA 2015, “UWB Transparent Antenna for Positional Tracking Applications”.

	2. Bronze Medal PECIPTA 2015, “Transparent Branch Line Coupler for Intelligent Transportation Beamforming Network”. 3. Silver Medal, INATEX 2015, “Compact UWB Antenna with Dual Band Rejection for Industrial Applications”. 4. Bronze Medal, INATEX 2015, “Transparent Beamforming Network using Micro-Metal Mesh Conductive Film”. 5. Matching Grant UTM for Intel Project. 6. Best Paper Award on International Conference on Telecommunication,Electronics and Computer Engineering.
2014	1. Citra Karisma Anugerah Penerbitan : Anugerah penulis Jurnal Berindex.
2013	1. GOLD Medal, ITEX 2013, “Transparent Dual Band Antenna for Green Technology Building”. 2. GOLD Medal, ITEX 2013,”Compact Dual Band Circularly Polarized Patch Antenna with Bandwidth Enhancement”. 3. Silver Medal, ITEX 2013,”Multilayer 3dB UWB Coupler for Butler Matrix Applications”. 4. Citra Karisma Anugerah Khidmat Cemerlang. 5. Silver Medal, INATEX 2013, “UWB Transparent Antenna for Positional Tracking Applications”. 6. Bronze Medal, INATEX 2013, “Transparent Branch Line Coupler for Intelligent Transportation Beamforming Network”.
2012	1. Gold Medal, MTE 2012, “Dual Band Beam Pattern Reconfigurable Antenna for WLAN Application”. 2. Silver Medal, MTE 2012, “The Development of Monitoring Assist Device for Hearing Impairment Children”. 3. Silver Medal, MTE 2012, “Beamforming Network using Dual-Band Dual-Beam Reduced Size Butler Matrices for WLAN Application”. 4. Silver Medal, INATEX 2012, “Transparent Dual Band Antenna for Green Technology Building”. 5. Silver Medal, INATEX 2012,”Compact Dual Band Circularly Polarized Patch Antenna with Bandwidth Enhancement”. 6. Silver Medal, INATEX 2012,”Multilayer 3dB UWB Coupler for Butler Matrix Applications”. 7. Citra Karisma Anugerah Penerbitan : Anugerah Penulisan Jurnal

	Berindex, UTM. 8. Citra Karisma Anugerah Sumbangan dan Pengiktirafan dalam Penyelidikan dan Penggunaan (R&D) di peringkat Kebangsaan dan Antarabangsa, UTM.
2011	1. Gold Medal, PECIPTA 2011, “Ultra Wide Band (UWB) planar Array Integrated With Butler Matrix”. 2. Silver Medal, PECIPTA 2011, “Design Of A Dual Band Circular Polarization Microstrip Antenna At 2.45GHZ & 5.8GHz”. 3. Silver Medal, PECIPTA 2011, “Dual Band Dual Beam Cascaded Butler Matrices”. 4. Silver Medal, PECIPTA 2011, “Reduced Size Active Antenna Beamforming Networks Using Cascaded Butler Matrices”. 5. Bronze Medal, PECIPTA 2011, “Multi Beamwidth Active Antenna Beamforming Network Using Butler Matrix”. 6. Silver Medal, INATEX 2011, “The Development of Monitoring Assist Device for Hearing Impairment Children”. 7. Silver Medal, INATEX 2011, “Beamforming Network using Dual-Band Dual-Beam Reduced Size Butler Matrices for WLAN Application”. 8. Bronze Medal, INATEX 2011, “Dual Band Beam Pattern Reconfigurable Antenna for WLAN Application”. 9. Gold Medal, SIIF 2011, “DUAL BAND DUAL BEAM CASCADED BUTLER MATRICES”. 10. Silver Medal, SIIF 2011, “Ultra Wide Band (UWB) planar Array Integrated With Butler Matrix”. 11. Silver Medal, SIIF 2011, “Reduced Size Active Antenna Beam Forming Networks Using Cascaded Butler Matrices”
2010	1. Silver Medal, Malaysia Technology Expo (MTE) 2010 “Communication Assist Device for Hearing Impairment Children” 2. Silver Medal, Malaysia Technology Expo (MTE) 2010 “Education Aid Gadget for Hearing Impairment Children using RFID Technology” 3. Silver Medal, INATEX 2010, “DESIGN OF A DUAL BAND CIRCULAR POLARIZATION MICROSTRIP ANTENNA AT 2.45GHZ & 5.8GHz”. 4. Silver Medal, INATEX 2010, “Ultra Wide Band (UWB) planar Array Integrated With Butler Matrix”. 5. Bronze Medal, INATEX 2010, “DUAL BAND DUAL BEAM CASCADED BUTLER MATRICES”.

	6. Bronze Medal, INATEX 2010, "REDUCED SIZE ACTIVE ANTENNA BEAMFORMING NETWORKS USING CASCADED BUTLER MATRICES". 7. Bronze Medal, INATEX 2010, "MULTI BEAMWIDTH ACTIVE ANTENNA BEAMFORMING NETWORK USING BUTLER MATRIX". 8. Karnival Rekacipta Kebangsaan 2010, "Ultra Wide Band (UWB) planar Array Integrated With Butler Matrix". 9. Karnival Rekacipta Kebangsaan 2010, "Education Aid Gadget for Hearing Impairment Children using RFID Technology". 10. Karnival Rekacipta Kebangsaan 2010, "Reduced Size Active Antenna Beam Forming Networks Using Cascaded Butler Matrices".
2009	1. Silver Medal, PECIPTA 2009 "Smart Antenna using Cascaded Butler Matrices" 2. Bronze Medal, PECIPTA 2009 "Reduce Size Butler Matrix for Smart Antenna System" 3. Bronze Medal, INATEX 2009 "LOCATION DETECTION DEVICE FOR HEARING IMPAIRMENT AND NORMAL CHILDREN" 4. Bronze Medal, INATEX 2009 " Education Aid Gadget for Hearing Impairment Children Using Radio Frequency Identification (RFID) Technology".
2008	1. Citra Karisma Anugerah Perkhidmatan Cemerlang (2008). 2. Kenaikan Pangkat DS 45 ke DS 52 (2008)

PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

2010-Current	1. Professional Engineer: Board of Engineer Malaysia (P. Eng) 2. Adjunct Professor, University of Swinburn 3. Senior Member, Institute of Electrical Electronics Engineers 4. Corporate Member, Institute of Engineer Malaysia (MIEM) 5. Member, The Institute of Electronics, Information and Communications (IEICE) 6. Member, Asia Pacific Economic Cooperation (APEC) Engineer 7. Member, International Professional Engineer (IntPE)

	8. Member, IEEE Antennas and Propagation Society. 9. Member, IEEE Microwave Theory and Techniques Society 10. Member, IEEE Power Electronics Society. 11. Member, Eta Kappa Nu Chapter (International Electrical Engineering Honour Society), University of Tennessee. 12. Mentor for Electronics Discipline, Institute of Engineer Malaysia (IEM).

ADMINISTRATIVE EXPERIENCE

ADMINISTRATIVE POST INTERNATIONAL/NATIONAL

1. **Chairman**, Technical Committee (TC 49) Malaysia, SIRIM (2013-Current)
2. **Chairman**, Technical Committee (TC 124) Malaysia, SIRIM (2013-Current)
3. **Chairman**, IEEE RFID Joint Chapter Malaysia, (2020-Current)
4. **Vice Chairman**, Institute of Engineer Malaysia (IEM), Southern Branch (2016-2017)
5. **Technical Expert,** on Wearable Electronic Devices and Technologies Working Group (WG) SIRIM (2016 -Current)
6. **Executive Committee**, Institute of Engineer Malaysia (IEM), Southern Branch (2012-2016)
7. **Executive Committee**, Institute of Engineer Malaysia (IEM), Southern Branch (2017-Current)
8. **Executive Committee**, IEEE AP/MTT/EMC Joint Chapter Malaysia, (2017-Current)
9. **Executive Committee**, Industry Standard Committee on Electrical and Electronics Equipments and Accessories (ISC S), SIRIM, (2011- Current)
10. **Executive Committee**, IEEE Malaysia Power Electronics, Industrial Electronics & Industrial Applications Chapter, (2013- 2015).
11. **Steering Committee** of 5G Working Group (NPWG)- Suruhanjaya Komunikasi Multimedia Malaysia (SKMM) (2013-Current).

ADMINISTRATIVE EXPERIENCE UNIVERSITY LEVEL

2018-Current	Pengerusi Majlis Pengetua UTM
2016-Current	Pengetua Kolej Tuanku Canselor (KTC), UTM.
2016-Current	Felow Kehormat, Institute Pembangunan Felo (IPF)
2008-2016	Felow, Kolej Tuanku Canselor (KTC), UTM,
2012-2013	Ahli Jawatankuasa Khidmat Komuniti (Service Learning), Universiti Teknologi Malaysia,
2013-Current	Ahli Jawatankuasa Program Pembangunan Kelayakan Profesional, Universiti Teknologi Malaysia,
2012	Technical Committee on Development and Research Bureau (Biro Pembangunan dan Penyelidikan, Institute Pembangunan Felo,
2011	Committee Members, Program Festival Inovasi dan Kreativiti UTM,
2011-Current	Appointment as Assessor FRGS , Innovative Engineering Research Alliance
2010	Technical Advisor for Fox Hunting 2010 "UTM Introductory Amateur Radio Directional Finding (ARDF)"

ADMINISTRATIVE EXPERIENCE FACULTY LEVEL

2011-2019	Chairman, Jawatankuasa Kerja Program Pembangunan Kelayakan Profesional, FKE
2011-2019	**Chairman**, Harvard Business School Course, FKE
2009	**Chairman** of AD HOC Committee Anugerah Kualiti Naib Canselor (AKNC)
2008-2014	**Vice Chairman**, Kelab Kebajikan Staff FKE.
2015-Present	**Head of Etching Lab**, Wireless Communication Centre **(WCC)**,
2008-2013	**Committee Member**, Promotion and Public Relation, Faculty of Electrical Engineering, UTM.
2008 -2013	**Committee Member**, First Year Experience (FYE), Faculty of

	Electrical Engineering, UTM.
2013	**Ahli Jawatankuasa** Kerja Kecemerlangan Pelajar Bumiputra di Fakulti Kejuruteraan Elektrik,
2009	**Course Coordinator** for Agilent Short Seminar on RF Circuit, System & EM Design,
2009	**Course Coordinator** for CST Short Course, UTM,
2009- Current	**Committee Members** of “WCC Buku Stok”,
2010	**Committee Members** of “Task Force Laporan Tahunan FKE”
2009	**Committee Members** of Academic Performance Audit (APA)
2008–2014	**Course Coordinator** for Practical Training, FKE
2009- 2011	**Course Coordinator**, Executive Diploma Program, WCC-SPACE
2008-2010	C**ourse Coordinator** for SPACE Program, FKE .

OTHERS EXPERIENCE

INTERNATIONAL APPOINTMENT/COMMITTEE

2017	1. Adjunct Professor University of Swinburne
2016	1. Technical Program Committee in 11th European Conference on Antennas and Propagation (EuCAP), 2016. 2. Technical Program Committee in International Conference on Information, Management Science and Applications 2016, Korea. 3. Technical Program Committee for the The 3rd International Conference On Electronic Design (ICED 2016). 4. Session Chair for Asia-Pacific Conference on Applied Electromagnetics (APACE) 2016. 5. Session Chair, The International Conference on Electrical, Electronic, Communication and Control Engineering (ICEECC) 2016
2015	1. Qatar National Research Grant Reviewer, 2015 2. Technical Program Committee European Conference on Antennas and Propagation (EuCAP), 2015. 3. Journal Reviewer, IEEE Antennas and Wireless Propagation Letters, 2015. 4. Journal Reviewer, Journal of Microwaves, Journal Reviewer, Journal of Electromagnetic Waves and Applications, 2015 5. Journal Reviewer, The Applied Computational Electromagnetic Society(ACES) Journal, 2015

2014	1. Technical Program Chair, Symposium on Wireless Technology & Applications (ISWTA) Conference 2014. 2. Qatar National Research, Grant Reviewer, 2014 3. Technical Program Chair, International Conference on Signal Processing and Integrated Network (SPIN) Conference, 2014. 4. Technical Reviewer European Conference on Antenna and Propagation, 2014. 5. Journal Reviewer, International Journal of Microwave and Wireless Technologies, 2014.
2013	1. Appointment as Chairman, TC 49 Working Group Malaysia, (2013-Current). 2. Invited Professor to IEC/TC 49 Japanese National Committee Workshop, Nagoya, Japan, 2013. 3. Technical Program Chair, Symposium on Wireless Technology & Applications (ISWTA) Conference, 2013. 4. Chair Session IEEE Symposium on Wireless Technology & Applications (ISWTA), 2013 5. Journal Review, Journal of Electromagnetic Waves and Applications, 2013. 6. Journal Review, International Journal of Antennas and Propagation, 2013 7. Technical Reviewer, IEEE International RF and Microwave Conference, 2013
2012	1. Invited Professor to IEC/TC 49 Japanese National Committee Workshop, Tokyo,Japan, 2012 2. Session Chair, Asia-Pacific Conference on Applied Electromagnetics

	(APACE) Conference, 2012. 3. Journal Review IEEE Microwave Wireless Component Letter (MWCL), 2012 4. Journal Reviewer, Institution of Engineering Technology (IET), 2012 5. Technical Reviewer, International Symposium on Telecommunication Technologies (ISTT), 2012 6. Technical Reviewer,International Conference on Intelligent & Advanced Systems, 2012
2011	1. Session Chair 17th Asia Pacific Conference on Communications (APCC), 2011. 2. Journal Reviewer, Progress in Electromagnetic Research Journal (PIER), 2011. 3. Technical Reviewer, Vehicular Technology Conference, 2011. 4. Technical Reviewer, International Workshop on Cognitive-inspired Networks, Systems and Applications

NATIONAL COMMITTEE

2016	1. Engineering Accreditation Panel (EAC) Panel, Universiti Kuala Lumpur, 2016. 2. Engineering Accreditation Panel (EAC) Panel, Universiti Teknikal Melaka (UTEM), 2016. 3. Engineering Accreditation Panel (EAC) Panel, Universiti Pertahanan National Malaysia (UPNM), 2016. 4. Engineering Accreditation Panel (EAC) Panel, Universiti Malaysia Sarawak (Unimas), 2016. 5. Panel Biasiswa Yayasan Iskandar, 2016. 6. IEM Professional Engineer (PE) Interviewer : Izaidah Khairan Binti Idris. 7. IEM Southern Branch, Student Sub Committee, 2016.

	8. Mentor for Electronics, Institute of Engineer (IEM), 2016
2015	1. Engineering Accreditation Panel (EAC) Panel, Kolej Universit Insaniah, 2015. 2. Engineering Accreditation Panel (EAC) Panel, Monash University, 2015. 3. Engineering Accreditation Panel (EAC) Panel, Asia pacific University (APU), 2015. 4. 5G Sub Working Group Committee, International Mobile Telecommunication (IMT) 5. Ketua Penilai Audit Pematuhan Program UTM,2015. 6. IEM Professional Interview: Appointment As Interviewer- Dr. Erwan Bin Sulaiman 7. Malaysian technical Standard Forum Bhd (MTSFB) 5 G Sub Working Group Activities under the International Mobile Telecommuinication (IMT) Working Group.
2014	1. Engineering Accreditation Panel (EAC) Panel, University Tun Hussin Onn, 2014. 2. Engineering Accreditation Panel (EAC) Panel, University Malaysia Sarawak, 2014. 3. Engineering Accreditation Panel (EAC) Panel, Multimedia University, 2014. 4. IEM Professional Engineer (PE) Interviewer : Babul Salam Bin Kadir Salam. 5. FRGS MyGrant Evaluation Panel, 2014.
2013	1. Engineering Accreditation Panel, Universiti Kebangsaan Malaysia, 2013. 2. Engineering Accreditation Panel, Universiti Malaysia Perlis, 2013. 3. Engineering Accreditation Panel, Taylor University, 2013. 4. Penghargaan SIRIM, Pembangunan Malaysia Standard, 2013. 5. AJK Regional Conference on Liberalisation IEM, 2013. 6. Juri Expo Penyelidikan Universiti Teknikal Melaka (UTEM), 2013. 7. Session Chair NASDEC Conference, 2013.

2012	1. Pembangunan Malaysia Standard, Penghargaan SIRIM,2012. 2. Ahli Jawatankuasa Standard Perindustrian Elektroteknik (ISC-S), 2012 3. Institution of Engineer Malaysia (IEM), Executive Committee Member, (2012-Current)
2011	1. Secretariat, Kembara Mahkota Johor,(2008 – 2011). 2. Ahli Jawatankuasa, Standard Perindustrian Elektroteknik (ISC-S), (2011-Current)

RESEARCH ACTIVITIES

RESEARCH PROJECT UNDERTAKEN

(HEAD OF PROJECT)

International Grants = RM 51,458

Contract Grant = RM 702,360

National Grants = RM 1,135,050

GUP Grants = RM 940,964

Matching Grants = RM184,944

Commercialization Grants = RM25,000

Post DOC Grant = RM 65,000

Total Amount = RM 2,443,912

2020

1. Integration Of Edge Computing And Blockchain With Internet Of Things, Professional Development Research University Grant, RM125,600. **Head of Project**.
2. Smart Monitoring System Using Internet Of Things (Iot) For Oil Production At SPR Langgak, Research University Grant, RM40,00 **Head of Project**.
3. Smart Monitoring For Oil Well And Production, International Grant, RM40,000. Head Of Project.
4. Development Of Co_Planar Waveguide Flexible Antenna for 5G Wearable System Application, Research University Grant, RM20,00 Head Of Project.
5. Development Of Multiple Input Multiple Output Antenna Using Organic Composite Materials For 5G Communication System, Research University Grant, RM65,00 **Head of Project**.

2019

1. Development of Flexible Antenna using Organic Composite Materials for 5G Vehicle-to-Vehicle Communication System, HICOE Research Grant, RM85,00 Head Of Project.
2. Characterization Of Beamforming In Non-Orthogonal Multiple Access (Noma) By Optimizing The Power Allocation Strategies And Clustering Algorithms In Cyber Security, Fundamental Research Grant Scheme (FRGS), RM88,000 **Head of Project**.

3. Intelligent Public Transportation Monitoring System Di Johor, Contract Research Grant, RM250,00 **Head of Project**.
4. Payment Monitoring System For Bus Muafakat Johor, UTM R&D Fund, RM32,864 **Head of Project**.
5. Three Dimensional Antenna Array As An Enabling Technology For 5G Wireless Networks, Networking Grant, **Head of Project**.

2018

1. Sistem Pengawasan Pengangkutan UTM, PRGS-UTM, RM20,000. **Head of Project**.

2017

1. Sistem Pengawasan Pengangkutan Awam Pintar Untuk Negeri Johor, IISJ-UPENJ, RM90,000. **Head of Project**.
2. Butler Matrix Beamforming Network For Future 5G Communicationâ Using Flexible Material, Networking Grant, **Head of Project**.
3. Frequency Selective Surface For X-Band Shielding For 5G Mobile Communication, Research University Grant, RM40,00 **Head of Project**.

2016

1. University of Rennes 1, France €2400. **Head of Project**. (Vot 4X131)
2. Study and Characterize Collobarative Beamforming Networks Using Meta-Heuristic optimization in Cyber Security, Fundamental Research Grant Scheme (FR GS), RM 61,200. **Head of Project**.**(Vot** 4F901**)**
3. Microwave Grid Array Antenna for MIMO 5G Mobile Communication Networks, Research University Grant (RUG), RM50,000. **Head of Project**. (Vot 13H08)

4. Flexible Smart Antenna Beamforming Network For 5G Mobile Communication System, HICOE Grant, RM 74,690. **Head of Project**. (Vot 4J213)
5. Development Of Flexible Antenna For Smart Antenna 5G Mobile Communication System, Research University Grant (RUG), RM20,000. **Head of Project**. (Vot 4J229)
6. Advancing the state of the art of MIMO: the key to the successful evolution of wireless networks, **EUROPEAN GRANT**, RM656,152. Member. **(Vot 4C094)**
7. Kajian keberkesanan pembelajaran melalui PAK-21 kepada pelajar Sekolah Menengah Teknik Semenanjung Malaysia, **Networking Grant**, RM 18,680. Member. **(Vot 4X163)**
8. Thermal Effect Investigation of Electromagnetic Field in Wireless Mobile Technologies concerning Allowable Power and Radiation Safety, **HICOE Grant**, RM 74,690. Member. **(Vot 4J212)**
9. Beamforming and Power Allocation for Wireless Powered Communication, **HICOE Grant**, RM 74,690. Member. **(Vot 4J210)**
10. Development Of Dielectric Resonator Antenna Array For 5G Applications, **Research University Grant (RUG)**, RM50,000. Member. **(Vot 13H26)**

2015

1. Development of Flexible Antenna for Smart Antenna 5G Mobile Communication system, Prototype Research Grant Scheme (PRGS),RM89,000, **Head of Project, (Vot 4L662)**
2. 5G Wireless Communication System on Antenna and Propagation, Research University (RU) Matching grant, RM144,944. **Head of Project. (Vot 00M78)**
3. Development of MIMO Antenna for high speed 5G Mobile Communication system, Research University Grant (RUG), RM49,700. **Head of Project. (Vot 09H78)**
4. Smart Antenna for fifth generation wireless communication, Post Doc RU Grant, RM65,000. **Head of Project. (Vot 02E45)**
5. Intelligent Traffic Light Controller System Using ARM Microprocessor and Artificial Algorithm, Prototype Development Grant, RM25,000. **Head of Project. (Vot 00F04)**
6. 5G Wireless Communication System on Antenna and Propagation, **HICOE Grant**, RM3,000,000 Key Reserchers.

2014

1. Study and Characterize Energy Power Improvement Through Near Field Coupling Optimization for Wireless Power Transfer, FRGS, RM 57,000. **Head of Project**. **(Vot 4F617)**

2. Near Field Communication Based Wireless Charging And Radio, CREST Fund, RM362,360. **Head of Project**. **(Vot 4B151)**
3. Development of Indoor Parameter Sensing using UWB-based System, E Science Fund,
   RM199,960. **Head of Project**. **(Vot 4S099)**
7. High Speed Mobile For Near Field Coupled Communication Systems and Wireless Energy Transfer, Research University Grant (RUG), RM20,000. **Head of Project**. **(Vot 08H81)**
4. Capacity Improvement Analysis through Sidelobe Reduction for Random Antenna Array System, **FRGS**, Member. **(Vot 4F290)**
5. Study of Secrecy Capacity in Multi-User MIMO Broadcast Channel, **FRGS**, Member. **(Vot 4F261)**
6. MIMO-OFDM Radio over Fiber Integration for 4G Backhaul Heterogeneous Network, **Science Fund,** Member. **(Vot 4S066)**
7. A MIMO Dielectric Resonator Antenna For Lte/ Lte-Advanced Application, **Science Fund**, Member. **(Vot 4S076)**
8. The Establishment Of emf Remote Monitoring Station Near Base Station Sites, Contract Research, Member. **(Vot 4C037)**
9. Application of Artificial Neural Network to Switched Beam Smart Antenna, **Research**
   University Grant (RUG), Members, **(Vot 09H61)**
10. Unequal Size Of Witricity Device Design Through The Characterization Of Its Coupling Coefficient For Wireless Communication Applications, **Research University Grant (RUG)**, Members, **(Vot 05H43)**
11. Design Implementation Of Dielectric Resonator Antenna For High Speed Mobile Devices Application, **Research University Grant (RUG)**, Members**, (Vot 05H62)**

2013

1. Transparent Co-Planar Waveguide Dual Band Antenna, Research University Grant (RUG), RM90,000, **Head of Project**. **(Vot 04H42)**
2. Capacity Improvement Analysis through Sidelobe Reduction for Random Antenna Array System, **FRGS**, Member. **(Vot 4F290)**

3. Study of Secrecy Capacity in Multi-User MIMO Broadcast Channel, **FRGS**, Member.
   (Vot 4F261)
4. MIMO-OFDM Radio over Fiber Integration for 4G Backhaul Heterogeneous Network, **Science Fund**, Member. **(Vot 4S066)**
5. A Mimo Dielectric Resonator Antenna For Lte/ Lte-Advanced Application, **Science Fund**, Member. **(Vot 4S076)**

2012

1. Reconfigurable Coplanar Waveguide-Fed Two Arm Archimedean Spiral Slot Antenna, Research University Grant (RUG), RM90,000), **Head of Project. (Vot 02H92)**
2. Characterization of Artificial Magnetic Conductors (AMC) Structure to Bandwidth Broadening and Gain Enhancement of Low Profile Antennas, Exploratory Research Grant Scheme (ERGS), RM70,000, **Head of Project. (Vot 4L056)**
3. A New Phase Beamforming Algorithm For Future Mobile Ground Station Antennas, **FRGS**, Member. **(Vot 4F036)**
4. The Establishment Of Emf Remote Monitoring Station Near Base Station Sites, **Contract Research SKMM**, Member **(Vot 4C036)**
5. The Establishment Of Emf Emission Real-Time Monitoring Through Website, **Contract Research SKMM**, Member **(Vot 4C037)**
6. Wireless Power Transfer Design For Mobile Phone Application And Its Electromagnetic Exposure Effect To Human Body, **Research University Grant (RUG)**, Member. **(Vot 08J72)**
7. Inter-Carrier Interference Mitigation In Ofdm Systems Using Eigenstructure Classified Pulse Shaping Under Novel Uncertainty Principle**, Research University Grant (RUG)**, Member. **(Vot 05H00)**
8. Design Of A Mimo Dielectric Resonator Antenna For Long Term Evolution Application, **Research University Grant (RUG)**, Member. **(Vot 08J81)**
9. Dual-Polarized Symmetrical Printed Yagi Antenna For Wireless On-Body Communication System (Woban), **Research University Grant (RUG)**, Member.
   (Vot 04H36)

2011

1. Ultra Wideband Butler Matrix Beam Forming Network using Multilayer Technology, Research University Grant (RUG), RM142,000), **Head of Project** (1/4/2011-**31/3/2013). (Vot: 00H50)**

2. Development of Photovoltic Film Technology, Flagship Grant, RM178,400), **Head of Project** (1/8/11-31/7/14)**(Vot : 00G35)**
3. Development of Photovoltaic Harvest System, Flagship, (1/8/11-31/7/14)-(RM178,400), **Head of Project. (Vot 00G35)**
4. Switchable Antennas for Cognitive Radio Applications, Research University Grant (RUG), (1/4/2011-31/3/2013) Members. **(Vot 01H00)**
5. Film Antenna Design, **Flagship Grant,** (1/8/2011-31/7/2014) Members.**(Vot 00G36)**
6. Affine Based Time-Scale Universal Wireless Channel Simulator for Stationary and Non Stationary Propagation Channels, **Research University Grant (RUG)**, (1/4/2011-31/3/2013) Members.**(Vot 02H31)**
7. Software Development Tool for Reflect Array Antenna, **Research University Grant (RUG)**, (1/5/2011-30/4/2012) Members. **(Vot 00J27)**
8. Rain Attenuation Studies and Mitigation Techniques at 26GHz and 5.8GHz for Point to Point Applications, **GUP TIER 1**, (1/4/11-31/3/13)- RM163,000, Members. **(Vot 01H05)**
9. A New Phase Beamforming Algorithm For Future Mobile Ground Station Antennas, **FRGS**, Member. **(Vot 4F036)**
10. Compact And Low Cost Planar Microwave Multi-Port Network For Uwb Applications, **GUP**, Member. **(Vot 00J61)**

2010

1. Spatial Diversity Analysis of MIMO System for Broadband Wireless Communications, Fundamental Research Grant Scheme (FRGS), RM44,000, **Head of Project** (1 April 2010-31 Mac 2012) **(Vot 3F508)**
2. Kajian Penyelidikan Kontrak - Projek Kerjasama UTM & Ericsson Berkaitan Sistem Gelombang Mikro, **Contract Research Erisccon**, Members **(Vot 68807)**

2009

1. Point to Point Microwave Link for Vehicle Application, MOSTI Science Fund, RM 186,300, **Head of Project** (4 Jan 2009- 31 Dec 2011). **(Vot 79357)**

2. The Possibilities of High Altitude Platform Station Gateway Links Deployment in the 5850-7075 MHz In Malaysia, **SKMM Contract Research**, RM 161,000, Key Researcher (1 Feb 2009- 30 Sept 2010). **(Vot 73742)**

2008

1. Smart Antenna System using Cascaded Butler Matrices, MOSTI Science Fund, RM 216,900, **Head of Project** (1 Nov 2008- 30 Oct 2010). **(Vote 79301)**
2. Optimization of Linear Array Antenna for Smart Antenna System, Initial Research Grant Scheme (IRGS), RM10,000, **Head of Project** (18 Feb 2008-17 Feb 2009). **(Vote 3G012)**
3. Antenna For On Body Communication, **Science Fund** (Vote 79300, RM 170,160), Key Researcher (1 Nov 2008- 1 April 2010).
4. Photonic Antenna for WLAN Backhaul Network, **Science Fund**, RM 280,600, Key Researcher (1 Dec 2008- 31 May 2010). **(Vote 79343)**
5. Wireless Channel Characterization And Multicarrier Technique In Wavelet Domain For Broadband Communication System, **Fundamental Research Grant Scheme (FRGS)**, RM89,000, Key Researcher (1 Nov 2080-31 Oct 2010). **(Vote 78368)**

2002

1. Adaptive Power Control System for Microwave Communication, (2002 – 2005) Key Researcher, **IRPA Grant (Vot 74013)**.
2. Front-End Low Design and Development for Wireless Communication: Adaptive Power Control for Point-to-Point Microwave Link, (2002-2005) Key Researcher, **IRPA Grant (Vot 74500)**.
3. Front-End Low Design and Development for Wireless Communication: Profile Antenna for Indoor and Outdoor Application for Wireless Communication, (2002-2005) Key Researcher, **IRPA Grant (Vot 74501)**
4. Front-End Low Design and Development for Wireless Communication: RF Front-End Design for Point-to-Point Microwave Link, (2002-2005) Key Researcher, **IRPA Grant (Vot 74502)**.

PATENT GRANTED

1. Transparent Dual-Band Antenna for Green Technology Building : **MY-163656-A**
2. Artificial Magnetic Conductor Using A Defective Ground Structure **: MY-167748-A**

PATENT FILED/DISCLOSURE

2017

1. High Gain Milimeter-Wave Micrpstrip Grid Array Antenna **PI2017702467**

2015

1. An Ultra-Wideband Dielectric Resonator Antenna **PI 2015702376**
2. Two Arm Archimedean Spiral Antenna **PI 2015 702382**
3. Transparent Branch Line Couplier (BLC) For Intelligent Transport System(Its) Butler Matrix Beamforming Networkp **PI 2015 702089**.

2013

1. Transparent Dual-Band Antenna for Green Technology Building : **PI 2013 006407**
2. Artificial Magnetic Conductor Using a Defective Ground Structure: **PI 2013002632**
3. Bandwidth Enhancement and Miniaturization of Dielectric Resonator Antenna for 5.8GHz Wireless LAN **PI 2013 701840**
4. Reduced Size Cascaded Butler Matrices for Dual Band Beam Applications **PI 2013 701851**

2011

1. Single Band Semi-Lumped Element Branch Line Coupler : **PI 2011 000377**
2. An Active Branch Line Coupler for Butler Matrix : **PI 2011 000378**
3. A Circular Polarized Microstrip Antenna at 2.5 GHz :**PI2011 000068**
4. A Microstrip Patch Antenna System at 2.5 GHz with Cross Polarization : **PI 2011 000065**

2010

1. Blind Spot Detector **: PI 20101897**
2. A Communication Device : **UI 2010001896**
3. Dual Band Active Microstrip Monopole Antenna for Wireless Local Area Network: **PI 2010 002045**
4. Dual Band Aperture Coupled Microstrip Patch Antenna : **PI 2010 002044**
5. An Ultra Wide Band Coupler for Butler Matrix : **PI 2010 006184**
6. A Dual Band Circular Polarization Microstrip Antenna at 2.45GHz & 5.8 GHz : **PI 2010 006187**

2009

1. Fluid Delivery Control System : **PI 20090943**
2. Dual Beam Dual Band Active Antenna Beamforming Networks : **PI 20093798**
3. A Device for Hearing Impaired Children : **PI 20093827**
4. Reduced Size Active Antenna Beamforming Networks using Cascaded Butler Matrices : **PI 20091560**
5. Reduced Size Multibeam Active Antenna Beamforming Networks : **PI 20090942**
6. Multi Beamwidth Active Antenna Beamforming Network using Butler Matrix : **PI 20091027**

2008

1. Active Antenna Beam Forming Networks Using Butler Matrices : **PI 20080734**
2. Reduce Size Butler Matrix for Smart Antenna System : **PI 20084114**

COPY RIGHT

2020

1. Trip Calculation Code, LY2020004369. (2020)

2016

1. A semi distributed combined distributed joint activation- hybrid CDJA-HYBphase synchronisation method for closed loop beamforming method: Source code for CDJAHYB **(2016)**
2. Particle Swarm Optimisation-Gravitational Search Algorithm-Explore PSOGSA-E for Fast Convergence and Simpler Tuning: Source Code for PSOGSA-E **(2016)**
3. The distributed evolutionary algorithm manner to achieve synchronization among the distributed nodes **(2016)**
4. Capacity Analysis at Unintended Receiver via Beampattern Optimisation in Collaborative Beamforming: Source Code for Capacity Analysis **(2016)**

2010

1. Location Detection Device for Hearing Impairment and Normal Children (Parent Device) **(2010).**
2. Advance Blind Spot Detector with Smart Mirror **(2010).**
3. Education Aid Gadget for Hearing Impairment Children using RFID Technology **(2010).**

2008

1. Optimization of SNR using Diversity Combining Techniques **(2008)**.

2. Error Vector Magnitude Measurement on Cascaded Butler Matrices **(2008)**.
3. Uniform Amplitude and Spacing Butler Matrix Radiation Pattern **(2008).**

4. Controlling the Nozzle for Smart Petrol Station **(2008)**.

5. Location Detection Device for Hearing Impairment and Normal Children (Child Device) **(2010).**

TEACHING ACTIVITIES

Semester	Sem	Subject Code	Subject	Credit Hour	Remark
20162017	1	SKEE3533	Prinsip Perhubungan	3	
20162017	1	SKEE3732	Makmal Umum Tahun 3	2	
20152016	2	SKET4533	Sistem Perhubungan Wayarles	3	
20152016	1	SKEE3533	Prinsip Perhubungan	3	2 Sections
20152016	1	SKEE3533	Prinsip Perhubungan	3	
20152016	1	SKEE3732	Makmal Umum Tahun	2	
2014/2015	2	SEE 4012	Professional Engineering Practice	2	2 Sections
2014/2015	2	SEE 4012	Professional Engineering Practice	2	
2014/2015	2	SKEL4824	Projek Sarjana Muda	4	
2014/2015	1	SEE 4012	Professional Engineering Practice	2	
2014/2015	1	SEE4513	Sistem Perhubungan	3	
2014/2015	1	SKEL4824	Projek Sarjana Muda	4	
2013/2014	2	SKET 3573	Microwave Engineering	3	
2013/2014	1	SET 3593	Antenna and Propagation	3	
2012/2013	2	SET 3573	Microwave Engineering	3	
2012/2013	1	SEE 4012	Professional Engineering Practice	2	
2011/2012	2	SKEE 1223	Digital Electronics	3	
2011/2012	1	SEE 4012	Professional Engineering Practice	2	
2010/2011	2	SEE 4012	Professional Engineering Practice	2	
2010/2011	1	SEE 4012	Professional Engineering Practice	2	

2009/2010	2	SEE 4533	Wireless Communication ystem	3	
2009/2010	1	SEU 2003	Electrical Technology	3	
2008/2009	2	SEU 2012	Electronics	2	
2008/2009	1	SEE 2043	Signals & Networks	3	
2007/2008	2	SEU 2052	Electrical Technology	2	
2007/2008	1	SEU 2002	Electrical Technology	2	

SUPERVISION

Program	Status	As Main Supervisor	As Co Supervisor
PhD	Graduated	**13**	**4**
	On going	**3**	**0**
Master by Research	Graduated	**12**	**3**
	On going	**2**	**0**
Master by Mix Mode	Graduated	**2**	**0**
	On going	**0**	**0**
Master by Taught Course	Graduated	**19**	**0**
	On going	**0**	**0**
Postdoctoral	Graduated	**1**	**0**
	On going	**1**	**0**

Post Doctoral

1. Mohammad Abedian Kasgari **(1 August 2015 – 30 July 2016)**
2. Olakunle Elijah **(1 Sept 2020 – 30 August 2022)**

PhD Project

1. Lway Faisal Abdulrazak - IMT-Advanced—Null Steering Interference. (**Graduated 2011**)
2. Marwa Ahmed - Spectrum Identification for High Altitude Platform Gateway link in the Band 5 850 - 7 075 MHz And Coexistence with Fixed Satellite Service. **(Graduated 2011)**

3. Abdul Rahman Amuda Yusuf - Rain Attenuation Transformation Modeling for Tropical Regions (**Graduated 2012**).
4. Dyg Norkhairunnisa Binti Abang Zaidel – Design of Butler Matrix in UWB **(Graduated 2014)**
5. Evizal - Design and Development of Active RFID System at 433 MHz Band for Asset Tracking Application In UTM Campus (**2014 Graduated**).
6. Bashir Muhammad Saad – Beamforming Butler Matrix Components using Transparent Conductive Film (**2014 Graduated**)
7. Shadi Danesh – Frequency Reconfigurable Dielectric Resonator Antennas (**2015 Graduated**).
8. Mohammad Abedian Kasgari – Compact Ultrawide Banck Dilectric Resonator Antenna (**2015 Graduated**)
9. Suhanya Jayaprakasam – Smart Antenna System (**2016 Graduated**)
10. Akaa Eteng (**2016 Graduated**)
11. Mursyid Idzam Bin Sabran **(2018 Graduated)**
12. Husameldin Abdelrahmen ElMobarak Elobaid **(2018 Graduated)**
13. Suleiman Aliyu Babale **(2018 Graduated)**
14. Kashif Paracha **(2018 Graduated)**
15. Yamen AlSaba (**2018 Graduated**)
16. Mohamad Harris Bin Misran **(2019 Graduated)**
17. Pon Lai Ly **(2019 Graduated)**
18. Ali Abdullatef (2018 - Present)
19. Nathirullah (2017 – Present)
20. Muhammad Zairil Bin Muhammad Nor (2019 – Current)

Master Project by Research

1. Norlindawaty Binti Md. Jizat – Reduced Size Cascaded Butler Matrices for Dual Band Dual Beam Applications (**Graduated 2011**).
2. Mursyid Idzam Bin Sabran - Point to Point Microwave Link for Vehicle Application (**Graduated 2012**).
3. Muhammad Zairil Bin Muhammad Nor - Smart Antenna System using Cascaded Butler Matrices **(Graduated 2013)**.
4. Nor Aishah Binti Muhammad – Foliage and Rain Effect on 5.8GHz Broadband Fixed Wireless Access **(Graduated 2012)**.
5. Arsany Bin Arsad - Agriculture Monitoring System using RFID in Palm Oil **(Graduated 2013)**.
6. Siti Fatimah Bt Ausordin – Design of Coupler using Multilayer and Semi Lumped Elements Techniques (**Graduated 2013**).
7. Raimi Bin Dewan @Abdul Rahman – X Polarization Array Antenna for MIMO Application (**Graduated 2013**).
8. Fadalia Dina Binti Dahalan – Switchable Wideband Antenna (**Graduated 2013**)
9. Siti Nor Ain Bt Mohamed Ghazali - Six Port Network As Complex Ratio Measuring Unit
   for Wireless Communication System (**Graduated 2014**)
10. Mohd Subri Bin Abdul Rani – Transparent Uwb Antenna With Band Notch At 5.8 Ghz Using Thin Film Technology (**Graduated 2014**)
11. Aiman Bin Ibrahim **(Graduated 2017)**
12. Lim Meng Chuan **(Graduated 2017)**
13. Yong Wai Yan **(2018 Graduated)**
14. Muhammad Ridduan Ramli **(2018 Graduated)**
15. Intan Rahmatullah **(2018 Graduated)**

16. Tan Lay Hwa (2017 - Current)
17. Liang Yun Ying (2017 -Current)

Master Project by Mix Mode

1. Ashraf Abdulrahman Adam - Ultra Wideband Butler Matrix Beamforming Network using Multilayer Technology (2010 **Graduated**).
2. Omar Ahmad Mashaal - Cpw-Fed Two Arm Archimedean Spiral Slot Antenna (2011 **Graduated**).

Master Project by Course

1. Maher Bahram Ahmed - Dual Band Aperture Coupled Microstrip Patch Antenna Using Different Aperture Shape For Wireless LAN Application (2008 **Graduated**)
2. Abdul Rahman Abdullah Mohammed Al Malsi - Dual Band Active Microstrip Monopole Antenna For Wireless Local Area Network (2008 **Graduated**).
3. Wanis Al. Hasan - Evaluation of potential interference and rain effects on 21.4-22 GHz downlink broadcasting satellite signal in Malaysia (2009 **Graduated**).
4. Ooi Thean Song - Design of A Dual Band Circular Polarization Microstrip Antenna at 2.45GHz & 5.8GHz (2009 **Graduated**).
5. Ahmad Tarmizi Bin Che Sahat - Ultra Wideband Microstrip Antenna with Band Rejection Capability (2011 **Graduated**).
6. Khalil.K.Gebril - Bandwidth Enhancement and Miniaturization of Dielectric Resonator Antenna for 5.8 GHz WLAN Applications (2011 **Graduated**).
7. Ebrahim Sailan Gubran Al-Abidi - Differential Fed Aperture Coupler Microstrip Antenna (2011 **Graduated**).
8. Abdulrahman Mohamed Ibrahim Ulusow - Dual Beam width Beamforming Network (2011 **Graduated**).
9. Mohamed Yasir Omer Elhiwiris - Miniature Size Branch Line Coupler (2011 **Graduated**).
10. Mohamed Ali Suliman Ashag - Reduces Size Butler Matrix for Smart Antenna System (2011 **Graduated**).
11. Shadi Danesh - A small Antenna for WiMax Application (2011 **Graduated**).
12. Masmurni Abdul Rahman - Reconfigurable antenna for WiFi, WLAN, and WiMaX **(2012- Graduated)**
13. Mohammad AbedianKasgari - Bandwidth Enhancement of Dielectric Resonator Antenna for W-LAN **(2012- Graduated)**
14. Seyed Mohammad Noghabaei - *Circular Polarization Microstrip Antenna For WiMax Application* **(2012- Graduated)**
15. Shayan _ Transparent UWB Antenna (**2013** – **Graduated**)
16. Mehran Memon - Wireless Power Transfer In Near-Field Communication Using A Current-Controlled Multi Loops With A Loaded Capacitance (**2015 Graduated**)
17. Abu Bakr Mohamed Ali Mustafa, Millimeter-Wave Grid Array Antenna For 5G Mobile Communication Networks **(2015 Graduated)**
18. Muhammad Sani Yahya, Grid Array Antenna For 5g Mobile Communication System (**2016 Graduated**)
19. Mohammed Tighezza, 5g Mobile Communication System Using Butler Matrix, (**2017 Graduated**)

POSTGRADUATE EXAMINATION /VIVA

UTM STUDENTS/VIVA

1. **Chairman** of M.Eng Viva Nor Aswani Mamat, 2014.
2. **Chairman** of M.Eng Viva Siti Fairus Roslan, 2014.
3. **Chairman** of M.Eng Viva Romli Mohamad, 2013.
4. **Chairman** of M.Eng Viva Rashidah Yob, 2013.
5. **Chairman** of M.Eng Viva Nor Aswani Mamat, 2013.
6. **Chairman** of M.Eng Viva Muhd Rajaie Dzulkifli, 2012.
7. **Chairman** of M.Eng Viva Muhammad Faizal Bin Ismail, 2012.

PhD EXTERNAL EXAMINER

1. **Sohail Khalid**, (PEE), Synthesis and Design of Ultra Wideband Bandpass Filters, Universiti Teknologi Petronas (UTP), 2013.
2. **Nurul Huda Abdul Rahman**, Design and Analysis of A Satellite Mount Parabolic Reflector Antenna for Malaysia Beam Coverage by Adopting Ray Tracing Method, Universiti Kebangsaan Malaysia (UKM), 2014.
3. **Suzanna Binti Harun,** Development of Asean Size Hand Phantom and Investigation of SAR and HSP on Brain Tissue for Mobile Phone Applications, Universiti Malaysia Perlis, 2015.
4. AlHareth M T Zyoud, Femtocell Path Loss and Interference Modelling In 4G Wireless
   Networks", International Islamic University Malaysia, 2017
5. Mohd Taih Gatte, Universit Malaysia Perlis, 2018.
6. Abdul Rahim Sadiq Batcha, Multimedia University, 2018.
7. Socheatra Soeung, Universiti Teknologi Petronas, 2018.
8. Yusmarnita Yusop, Universiti Teknikal Malaysia Melaka, 2018.
9. Arshad Bin Selamat, Universiti Kebangsaan Malaysia, 2019.
10. Mohd Nazrin Bin Mohd Yassin, Universiti Putra Malaysia, 2019.
11. Shaik Faraz, Universit Islam Antarabangsa Malaysia, 2019.
12. SAIDU ADAMU, Universiti Malaysia Sarawak, 2019.
13. Ali Ahmed, Universiti Putra Malaysia, 2019.

PhD INTENAL EXAMINER

1. Ibtihal Fawzi Elshami, Tropospheric Scintillation for Earth to Space Communication Link, 2016
2. Imran Bin Mohd Ibrahim, Open Air Gap Radial Cavity Slot for Array Antenna Backhaul Applications", 2015.
3. Masoud Mohebbi Nia, Rain Attenuation time Series Synthesizers for Tropical Heavy Rain Regions", 2015.

4. Omar Abdul Aziz, Empirical Propagation Model for Stairwell Environment at 0.7GHz to 2.5GHz Frequency Spectrum, 2015.
5. Osman Ayob, Metamaterial Absorber in X Band Frequency, 2015.
6. Arshed Abdulhameed Oudeh, "Compatability and Coexistence Analysis of LTE Networks with Other Cellular Systems", 2013.
7. Huda Bin Abdul Majid, Frequency Reconfigurable Microstrip Slot Antenna, 2013.
8. Khalid Ibrahim AlKhendhairi, Interference Between Terrestrial High Altitude Platform ans Satellite Systems, 2013.
9. Teddy Purnamirza, "Reconfigurable RLSA for Smart Antenna System", 2011.
10. Nur Hidayah Ramli, "New Implantable Antenna for in Body Centric Communication System", 2011.
11. Abdullah Saad Mohammed Al-Ahmadi, "Multi Floor Positioning using Bayesian Graphical Models", 2011.
12. Nur Hidayah Ramli, "Design and Performance of Antenna for Wireless Implantable Body Area Network Application", 2014.Mohd. Tarmizi Bin Ali, (PEE), "Optimization of Reconfigurable Radiation Pattern for Planar Array Aperture Antenna", 2008.
13. Er Yong Hwa, (PEE), "Propagation Link Analysis and Prediction for Satellite Digital Video Broadcasting Reception in Malaysia", 2008.

MASTER BY RESEARCH EXTERNAL EXAMINER

1. Nurul Syuhada, Universiti Malaysia Sarawak, 2019.
2. kayser Azam, Universit Islam Antarabagsa Malaysia, 2019.
3. Sofiyah Sal Hamid, Universiti Sains Malaysia, 2018.
4. Kamarul Hafiz Kamaludin, Univsesiti Sains Malaysia, 2018
5. Tan Kiang Seng, Multimedia Universiti, 2018
6. Muhammad Al Amin Amali Mazlan, Universit Teknologi Petronas, 2017.
7. Cha Hong Ye, Universiti Sains Malaysia, 2017.
8. Md Ikbal Hossain, Analysis of Metamaterial Inspired Low Specific Absorption Rate Planar Antenna for Mobile Phone, Universiti Kebangsaan Malaysia, 2016.
9. Karrar Naji Salman Al Khanjar, Co-Planar UHF RFID Tag Antenna with U-Shaped Inductively Coupled Feed for Metallic Applications, Universiti Putra Malaysia, 2016.
10. Md Imtiaz Islam, Analysis of Double Sided Array Antenna and U Slot Parasitically Coupled Antenna Array for LTE and WLAN Applications, Universiti Malaysia Perlis, 2016.
11. Kamelia Binti Muhamamd Chatib Quzwain, A High Gain Microstrip Yagi Antenna with Large Bandwidth at Frequency of 5.8GHz, Universiti Putra Malaysia, 2016.
12. Lim Yi Qiao, Design Of Compact Helical Antenna For Land Mobile Radio, Universiti Sains Malaysia, 2016.
13. Rahmah Ali Husssein, A Novel Microwave Sensor with High Q Resonator for High Selectivity Material Characterization, UTEM 2016.
14. Najwa Bt Mohd Faudzi, "Development of Metal Mountable RFID Tag Antenna in Ultra High Frequency Range", Universiti Teknologi Mara (Uitm) 2015.
15. Mahfuzah Bt Shukor, Design of Frequencu Selective Surface for RM/Microwave Transmission Filter, Universiti Teknikal Melaka, 2015.
16. Harindravel a/l Lechhumanan, Optimization Designing for VHF Radio ATE Testing, Universiti Sains Malaysia, 2015.
17. Yew Tze Ee, FPGA Implementation of Fuzzy Logic Controller using Finite State Machine for LED Driver, Universiti Sains Malaysia, 2015.

18. Muhd Hazmi Bin Mokhtar, Compact planar Antenna Array for Point to Point Communication, Universiti Teknologi Malaysia (UTM), 2015.
19. Salehi Kibria, "Development of Optimization Algorithm for Microstrip Antenna Technology", Universiti Kebangsaan Malaysia, 2014.
20. Muhammad Qayum Omar, "Design and Implementation of Embedded Active RFID System with Strain Sensor", Universiti Sains Malaysia 2014.
21. Hossein Mazidi, Memory Polynomial Pre-distorter in Wireless Broadband Communication Systems, Universiti Putra Malaysia,2014.
22. Nor Hidayah Binti Daud, Integration of Split Ring Resonators (SRRs) for UHF RFID Tag Antenna, Universiti Putra Malaysia,2014.
17. Abdirahman Mohamad Shire, Archimidial Spiral Antenna Embedded with Frequency Selective Surface for UWB Applications, Universiti Tun Hussein Onn (UTHM), 2014.Muhammad AlFatih Muddathir Abdel-Rahim, "Development of Transmit Power Control Scheme for Zigbee Healthnets", International Islamic University Malaysia, 2013.
18. Mohammad Mohsenkhah, "Effect of Low Power Microwave Frequency on the Chili Seed Germination and Growth", Universiti Putra Malaysia, 2013.
19. Tan Poi Ngee, "Antenna Design and Development for Unmanned Aerial Vehicle Synthetic Aperture Radar", Multimedia University, 2013.
20. Md Rubel Basar, "Human Body Channel Modelling and Low Power High Data Rate Transceiver Design for Wireless Capsule Endoscopy", Universiti Malaysia Perlis, 2013.
21. Lim Chin Siong, "Warehouse Inventory Location Tracking using ZiTac", Universiti Sains Malaysia 2013.
22. Mohanad Dawood Hasan Al-Dabbagh, A ModifiedDifferentialEvolution Algorithm for ALinear Frequency Modulation Radar Signal Denoising, Universiti Putra Malaysia, 2013.
23. Mohammad Mohsen Khah, Effect of Low Power Microwave Frequency on the Chili Seed Germination and Growth, Universiti Putra Malaysia, 2013.
24. Nor'aini Binti Ahmad Zawawi, "RF/Microwave Components and Devices Design Based on Natural Fiber Bio-Composites as Bio-Dielectric", Universiti Putra Malaysia, 2012.
25. Ubaid Ullah, "Dual Segment Rectangular Dielectric Resonator Antenna for Broadband Applications", University Sains Malaysia, 2012.Farah Hazwani Bt Mohd Zanal, "Development of Integrated Motion Sensitive Sensor with UHF RFID in WSN Platform", Universiti Sains Malaysia, 2012.
26. Omar Noori, "Design of Triple Band Microstrip Antenna for Mobile Phone Jammer", International Islamic University Malaysia, 2012.
27. Norhanis Aida Bt Mohd Nor, "Analysis of Atmospheric Effects of Free Space Earth to Satellite Optical Link in Malaysia", International Islamic University Malaysia, 2012.

MASTER BY RESEARCH INTENAL EXAMINER

1. Nor Azimah Bt Shukor, Design of Multiport Network Formed by Enhanced Branch Line Coupler for Wideband Applications., 2015.
2. Noor Ziela Bt Abd Rahman (MEG), "Propagation Studies at 5.8GHz within Campus Environment for Point to Multi Point Application", 2013.
3. Sri Listia Rosa, "Sistem Kabel Buatan Terhadap Pemantauan Ketaknormalan Pesakit Dalam Waktu Nyata", 2012
4. Muaaz Habib Husaini (MEG), "Study on Coverage Extension and Throughput Enhancement Through Relaying Strategies for LTE Advanced", 2011.

5. Yassir A.Ahmed (MEG), “Study Different Propagation Models for LTE System”, 2011.
6. Masoud Mohebbi Nia (MEG), “Spectrum Sharing of 80MHz Channels for HAPS with Fixed Satellite Service Uplink in the Frequency Range 5850-7075 MHz”, 2011.
7. Pon Lai Ly, (MEE), “Foliage Attenuation and Fading Characteristics for Fixed Terrestrial Line of Sight and Near Line of Sight Links in Surbrban Vegetated Environment”, 2010.
8. Hayder Hilal Taan (MEG), “Interference and Performance for IMT-Advance and FSS at 3400-4200MHz”, 2010.
9. Ali Mohammed Qasem (MEG), “Design of Compact Ultra Wide Antenna for Wireless Personal Area Network Applications”, 2010.
10. Ade Erawan Bin Minhat (MEG), “Determination of Rain Rate Distribution and Rain Cell Size from the Malaysia Meteorological Radar Data”, 2010.
11. Huda Bin A Majid, (MEE), “Design and Development of Left Handed Metamaterial for Antenna Application”, 2008.
12. Naji Abdu El-Gader Ahmed (MEG), “Outdoor Propagation Prediction and Measrement for Point to Point Wireless LAN”, 2008.
13. Suhil Sharif Ben Omran (MEG), “Design Beamforming Network using Switch Line Phase Shifter”, 2008.

MASTER BY COURSE INTENAL EXAMINER

1. **Ahmad Nashwan Abdulfattah,** “Rain Attenuation Statistics Estimated from Radar Measurement for Land Mobile Satellite Systems”, 2010.
2. **Ahmed Khalid Jasim,** “Peak Factor of Rain Attenuation Time Series in Slant Paths”, 2010.
3. **Norsuzlin Mohd Sahar,** “Recinfigurable Antenna Design using RF Pin Diode”, 2010.
4. **Roshaniza Md Hashim,** “Performance Comparison of Array Antenna Arrangement in a Microstrip Array Antenna”, 2010.
5. **Sara Sangtarash,** “Co-existence and Sharing between HSPDA and LTE-OFDM System”, 2010.
6. **Ang Yiaw Hong,** “Airport Departure Gate Indicator System using Rabbit Microcontroller”, 2010.
7. **Shuhaida MAsni Che Abdullah,** “Omnidirectional Broadband Antenna for Spectrum Sensing”, 2010.
8. **Wong Yoon Khang,** “Performance Analysis of the Deployment of OFDM Scheme for Wireless over Fibre Communication Link”, 2010.
9. **Ahmad Zhafri Ahmad Zahir,** “Coexistence and Sharing between LTE-Advanced and 3.5GHz FSS Frequency Spectrum”, 2010.
10. **Uthaya Kumar Maindy,** “Performance Studies between WiMax and LTE Advanced for 4G”, 2010.
11. **Khairuil Ridzuan Ramly,** “Dual Band Hybrid Dielectric Resonator Antenna for ISM & UNII Bands Applications”, 2010.
12. **Farah Buthainah Nor MOhd. Yusoff,** “ Network Capacity Enhancement in MMR WiMax using Cognitive Radio”, 2010.
13. **Chong Swee Teen,**“Wavelength Division Multiplexing Technology for Radio Over Fiber System”, 2010.
14. **Pushpamalar A/P Mukilan,** An FPGA Implementation Of Alamouti’s Transmit Delivery Technique, 2008.

15. **Azizi bin Harun**, Peak to Average Power Ratio (PAPR) Minimization Using Selected Mapping Algorithm In Pilot-Assisted OFDM System, 2008.
16. **Norshakila Binti Haris**, Design Of RF Filter Based On RF Compenents, 2008.
17. **Mohammed Musa Mohammed Musa**, Adaptive Loading In MIMO OFDM Systems, 2008.
18. **Vida Vakilian,** DSP Implementation Of Switch-Beam Smart Antenna System By Using TMS320C67X Digital Signal Processor, 2008.
19. **Ali Kaiss Aswad**, Circular Polarized Antenna For Broadband Wireless System, 2008.
20. **Omar Bin Abdul Aziz,** Performance Studies Of The Radial Line Slot Array (RLSA) Antenna At 5.8GHz Based On Different Materials And Configuration.
21. **Arfah Ahmad Hasbollah**, "Development of Location Tracking Software for Mobile IPV6 using Linux", 2008.
22. **Ahmed Mousa Ahmed Hamid**, "Microstrip Antenna Array using Coplanar Feeding Technique", 2008.
23. **Ghaith Elsanosi M. Mansour, "**Design of Microstrip Patch Antenna Fed by Coplanar Waveguide", 2008.
24. **Kasumawati Binti Lias, "**Study of Safety and Health Aspects of Base Stations and Mobile Phone", 2008.
25. **Koh Cheng Soi**, "Optimum Antenna Configuration for Millimeter Wave Communication from High Altitude Platforms", 2008.
26. **Hatem Almokhtar Omar Abdulkabir**, "Tropical Raindrop Size Distribution for the Prediction of Rain Attenuation", 2008.
27. **Ganavicknesh a/l Kanesin**, "Characterization of RF Power Amplifier for VHS Transceiver using Source and Load Pull Technique", 2008.
28. **Adeel Ghulam Nabi**, Site Diversity for High Altitude Platform, 2007.
29. **Ghaith Elsanosi M. Mansour**, Design of Microstrip Patch Antenna Fed by Coplanar Waveguide, 2007.
30. **Norshakila binti Haris,** Design of RF Filter Based on RF Components, 2007.

PUBLICATIONS

Q1 & Q2 Journals = 41

H Index (SCOPUS) = 20

Citation (SCOPUS) = 1626

H Index (GOOGLE SCHOLAR) = 24

Citation (GOOGLE SCHOLAR) = 2424

Published in ISI (with Impact Factor & Quatile) = 114

Published in SCOPUS (without impact factor) = 26

Total Journal = 140 Journals

JOURNAL PUBLICATION

2020

1. Maxime Harnois, Mohamed Himdi, Wai Yan Yong, **Sharul Kamal Abdul Rahim**, Karim Tekkouk & Nicolas Cheval, "An Improved Fabrication Technique for the 3-D Frequency Selective Surface based on Water Transfer Printing Technology", Scientific Reports (Nature Research), Volume 10, Article number: 1714, 2020.
2. Fatin Nabilah Giman, Ping Jack Soh, Mohd Faizal Jamlos, Herwansyah Lago, Azremi Abdullah Al-Hadi, **Sharul Kamal Abdul Rahim**, Dominique Schreurs, Prayoot Akkaraekthalin, Adalbert Beyer, "Gain Enhancement of a Dual-Band Planar Slot Dipole using AMC Plane for WBAN and WLAN Applications", Applied Computational Electromagnetics Society Journal, Vol. 35, No. 2, February 2020.
3. AREZOO Abdi, FARHAD Ghorbani, H Aliakbarian, KG Tan, **SKA Rahim**, PJ Soh, "Electrically Small Spiral PIFA for Deep Implantable Devices", IEEE Access, 2020.
4. Ali Abdulateef Abdulbari, Z Zakaria, **Sharul Kamal Abdul Rahim**, Yaqthan Mahmood Hussein, Mustafa Mohammed Jawad, Ayad Muslim Hamzah, "Design and development broadband monopole antenna for in-door application", Telkomnika, Volume18, Issue 1, Pages 51-56, 2020.

2019 (Total CIF in 2019)

1. Kashif Nisar Paracha, **Sharul Kamal Abdul Rahim**, Ping Jack Soh, Mohsen Khalily, "Wearable Antennas: A Review of Materials, Structures, and Innovative Features for Autonomous Communication and Sensing", IEEE Access, Vol. 7, 56694-56712, 2019.
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2. D. N. A. Zaidel, **S. K. A. Rahim** and N. Seman, "Design of Compact Slot Coupled Single- Section Directional Couplers for Butler Matrix Beam-forming MIMO", URSI General Assembly and Scientific Symposium, 2011.
3. S.N.D.Azizi, **S.K.A.Rahim**, M.I.Sabran, "Realization of A Compact Branch Line Coupler", IEEE Symposium on Wireless Technology Applications, 2011.
4. Nor Salehah binti Muklas, **S.K.A.Rahim** and Norhudah Seman, "Ultra Wideband Coupler Design for Butler Matrix Application", 17th Asia-Pacific Conference on Communications, 2011.
5. Kesavan Ulaganathen, Tharek A.R , **Sharulkamal A.R**, "Rain attenuation studies on path reduction factor for tropical terrestrial link," 17TH Asia Pacific Communication Conference, 2011.
6. M. Z. M. Nor, **S. K. A. Rahim**, M.F. Jamlos, F.Maleq, M. I. Sabran, "Slotted Square Patch printed Monopole Antenna with Dual Band Capabilities for WLAN Application", Asia Pacific Microwave Conference (APMC), 2011.
7. M. I. Sabran, **S. K. A. Rahim**, M. S. A. Rani, and M. Z. M. Nor, "A Single Band Dual-Fed Circular Polarization Microstrip Antenna for RFID Application", IEEE RFM Conference, 2011.
8. R. Dewan, **S. K. A. Rahim**, S.F. Ausordin, H. U. Iddi and M.Z.A. Abd. Aziz, "X-Polarization Array Antenna with Parallel Feeding for WiMAX 3.55 GHz Application", IEEE RFM Conference, 2011
9. S. N. A. M. Ghazali, N. Seman, R. C. Yob, M. K. A. Rahim and S. K. A. Rahim, "Design and Cross-Section Analysis of Wideband Rectangular-Shaped Directional Coupler", IEEE RFM Conference, 2011.

2010

1. **S.K.A. Rahim**, N. Muhammad, T.A. Rahman, "Beamforming Networks using Reduced Size and Cascaded Butler Matrices", 4th European Conference on Antenna and Propagation, 2010.
2. M.T.Md Nor, T.A. Rahman, **S.K.A. Rahim**, M.T.Ali, M.F.Jamlos, "Antenna Array Enhancement Mushroom Like Electromagnetic Bandgap (EBG)", 4th European Conference on Antenna and Propagation, 2010.
3. N.M. Jizat, **S. K. A. Rahim** and T.A. Rahman, "Dual Band Beamforming Network Integrated with Array Antenna", Asia Modeling Symposium, May 2010.
4. M. N. Md Tan, T.A.Rahman, **S.K. A.Rahim**, M.T. Ali and M.F.Jamlos , "Elements Reduction Using Unequal Spacing Technique for Linear Array Antenna", PIERS conference, China, 2010.
5. M. Ahmed, **S.K.A. Rahim**, A.R Al Malsi, M.Z.M. Nor and M.R. Kamarudin, " Dual Band Aperture Coupled Microstrip Patch Antenna using Eliptical Aperture Shape", 2nd International Conference on Technology & Operations Management, 2010.
6. Marwah Y. Ahmed , T. B. A. Rahman and **S. K. A. Rahim**, "Enhancement of Coexistence Prediction Between HAPS Gateway Link And Fixed Satellite Service In

The Range 5 850 - 7 075 MHz", International Symposium on Antenna Propagation, 2010.

7. Ahmed M.Y, Rahman T.A**, Rahim S.K.A**, "High Altitude Platform Station Gateway Link in the Range 5850-7075 MHz and Coexistence with Fixed Satellite Service (FSS)", Wireless World Radio Forum (WWRF24), 2010.
8. M.F.Jamlos , T. A. Rahman, **S.K.A.Rahim**, M.T. Ali, M. N. Md Tan and P.Saad, "Reconfigurable Aperture Coupled Planar Antenna Array at 2.3GHz", in Proceedings of Progress in Electromagnetics Research Symposium, (PIERS 2010). Xi'an, China. 22-26 March 2010.
9. M.F.Jamlos, T. A. Rahman, **S.K.A.Rahim**, M.T. Ali, M. N. Md Tan and P.Saad, "Integration of RFID Technology into Reconfigurable Aperture Coupled Patch Array (RACPA) Antenna System", in Proceedings of 4th European Conference on Antennas and Propagation (EuCAP 2010), Barcelona, Spain. 12-16 April 2010.
10. Abdulrazak, L.F.; Rahman, T.A.; **Abdul Rahim, S.K**.; Yousif, M, "Study HAPS interference power to noise level ratio of fixed services and related separation distance",10th Inernational Conference on Information Sciences Signal Processing and their Applications (ISSPA), 2010.

2009

1. L.F Abdul Razak, **S.K.Abdul Rahim,** T. A. Rahman, "New Algorithm to Improve the Coexistence between IMT-Advanced Mobile Users and Fixed Satellite Service", Proceeding of 2009 International Conference on Machine Learning and Computing (ICMCL 2009), Australia, July 2009, pp. 294-301. (ISBN 978-1-84626-018-6).
2. **Sharul Kamal A. Rahim, Noraishah Muhammad**, "Compact Butler Matrix Using Reduced Size Branch Line Coupler", International Defence & Security Technology Conference, 2009.
3. **Sharul Kamal A. R** , Noorlindawaty M.J, Tharek A. R, "Multibeam Smart Antenna System Using Cascaded Butler Matrices", International Conference on Robotic, Vision, Signal Processing and Power Applications (RoViSP), 2009.
4. N.M. Jizat , **S. K. A. Rahim**, T.A. Rahman, "Dual Frequency ISM Band Butler Matrix Using Planar Coupler", IEEE International *Conference* on Antennas, Propagation and Systems (INAS), 2009.
5. **S.K.A Rahim** and N.A.MUHAMMAD, "Smart Antenna System Using Reduced Size And Cascaded Butler Matrices", IEEE International *Conference* on Antennas, Propagation and Systems (INAS), 2009.

2008

1. M. N. Md Tan, **S.K. A.Rahim**, M.T. Ali and T.A.Rahman**,** "Smart Antenna:Weight Calculation and Side-lobe Reduction by Unequal Spacing Technique", IEEE RFM International Conference, 2008.
2. M. N. Md Tan, T.A.Rahman, **S.K. A.Rahim** and M.T. Ali, "Sidelobe Reduction on Unequal Linear Array Antenna", IEEE SCOReD Conference, 2008.
3. **S.K.A. Rahim,** Nor Aishah Muhammad and Noorlindawaty M. Jizat," Reduces Size Branch Line Coupler", IEEE SCOReD Conference, 2008.
4. **S.K.A. Rahim,** Alfian bin Akhyar, Bong Voon Pai, "Smart Antenna System uisng Cascaded Butler Matrices", IEEE SCOReD Conference, 2008.

2007

1. **S.K.Abdul Rahim** and P.Gardner, "Adaptive Antenna System using Cascaded Butler Matrices", International Conference on Information, Communication and Signal Processing (ICICS), 2007 Singapore. **(Scopus)**

2. **S.K.Abdul Rahim** and P.Gardner, "Error Vector Magnitude Measurement On Cascaded Butler Matrix System", Asia Pacific Microwave Conference (APMC) 2007, Bangkok.
   (Scopus)
3. **S.K.Abdul Rahim** and P.Gardner, "Beamforming Network Using Cascaded Butler Matrices", Asia Pacific Conference on Applied Electromagnetics, 2007, Melaka, Malaysia. **(Scopus)**

2006

1. **S.K.Abdul Rahim** and P.Gardner, "Active Array and Beamformer SNR Measurements with Selection and Maximal Ratio Combining", 6th Mediteranean Microwave Symposium (MMS) 2006, Genoa, Italy.
2. **S.K.Abdul Rahim** and P.Gardner, "Broadbeam-High Linearity and High Gain-Narrowbeam Array Antenna System", European Conference on Antenna Propagation (EuCAP) 2006, Nice, France. **(Scopus)**

2002

1. **S.K. Abdul Rahim**, C.S.Sum, J.Din, T.A.Rahman, Z.A.A.Aziz and A.Awang, "Rain Attenuation Study Over Terrestrial and Earth Satellite Links in Malaysia", International Union of Radio Science XXVIIth General Assembly, 2002, Maastricht, Holland.

2001

1. **A.R.Sharul Kamal**, A.R.Tharek and J.Din, "Comparison of Measured and Predicted Reduction Factors Models from the Network Rain Gauges in Malaysia", Progress In Electromagnetics Research Symposium (PIERS), 2001, Osaka, Japan.
2. **S.K. A. Rahim**, A. R. Tharek and J. Din, *"Rain Attenuation Prediction For Satellite Communication System at Ka Band in Malaysia",* Eleventh International Conference on Antennas and Propagation(ICAP), 17-20 April, 2001. UMIST, Manchester, UK.
3. **S.K. A. Rahim**, A. R. Tharek and J. Din, *'Development of Rain Contour Map in Malaysia for Microwave Communication System',* (SCOReD) 2001.

2000

1. T.A.Rahman, J.Din, **S.K.Abdul Rahim**, "Preliminary Analysis of Rain Attenuation on Two 26GHz Links in Malaysia", 4th International Wireless and Telecommunications Symposium, Kuala Lumpur, 2000.

SEMINARS/WORKSHOPS

1. Speaker SKMM-_WCC "Antenna and Propagation", 2013.
2. Speaker SKMM-WCC "Basic Spectrum Management" ,2012.
3. Speaker SKMM-WCC "Antenna and Propagation" ,2012.
4. Speaker SKMM-WCC "Basic Spectrum Management" , 2011.
5. Speaker SKMM-WCC "Radio Communication System",2009.
6. Speaker "Radio Communication System", Astronautic Technology Sdn Bhd (ATSB), 2008.
7. Speaker Short Course of Radio Communication System, Sudan Students (2008).
8. Program Speaker: For Final Year Student, "How to Get Yourself Employed".

THESIS

1. Sharul Kamal Bin Abdul Rahim, Active Antenna Beamforming Networks Using Butler Matrices, PhD Thesis University of Birmingham, United Kingdom, 2007.
2. Sharul Kamal Bin Abdul Rahim, Study of Microwave Signal Attenuation over Terrestrial Link at 26GHz in Malaysia, Master of Engineering Thesis Universiti Teknologi Malaysia, 2001.

ENCYCLOPEDIA

1. Editor, "Ensiklopedia Sains Dan Teknologi", Dewan Bahasa Pustaka, 2010.

2. Editor, Ensiklopedia Sains dan Teknologi, (Antena), 2010.

3. Editor, Ensiklopedia Sains dan Teknologi, (Tele Persidangan Video), 2010.

4. Editor, Ensiklopedia Sains dan Teknologi, (Dielektrik), 2010.

EXPERT REPORT

1. SAR Report of Engineering Technologies Accreditation Panel (ETAC) Panel, Politeknik Kuala Trengganu, 2018.
2. SAR Report of Engineering Technologies Accreditation Panel (ETAC) Panel, Manipal International University, 2018.
3. SAR Report of Engineering Technologies Accreditation Panel (ETAC) Panel, Universiti Kuala Lumpur, 2018.
4. SAR Report of Engineering Accreditation Panel (EAC) Panel, Universiti Pertahanan National Malaysia (UPNM), 2018.
5. SAR Report of Engineering Accreditation Panel (EAC) Panel, Universiti Islam Antarabangsa Malaysia, 2017.
6. SAR Report of Engineering Accreditation Panel (EAC) Panel, Universiti Kuala Lumpur, 2016.
7. SAR Report of Engineering Accreditation Panel (EAC) Panel, Universiti Teknikal Melaka (UTEM), 2016.
8. SAR Report of Engineering Accreditation Panel (EAC) Panel, Universiti Pertahanan National Malaysia (UPNM), 2016.
9. SAR Report of Engineering Accreditation Panel (EAC) Panel, Universiti Malaysia Sarawak (Unimas), 2016.
10. SAR Report of Engineering Accreditation Panel (EAC) Panel, Kolej Universit Insaniah, 2015.
11. SAR Report of Engineering Accreditation Panel (EAC) Panel, Monash University, 2015.
12. SAR Report of Engineering Accreditation Panel (EAC) Panel, Asia pacific University (APU), 2015.
13. SAR Report of Engineering Accreditation Panel (EAC) Panel, Universit Tun Hussin Onn, 2014.
14. SAR Report of Engineering Accreditation Panel (EAC) Panel, Universiti Malaysia Sarawak, 2014.
15. SAR Report of Engineering Accreditation Panel (EAC) Panel, Multimedia University, 2014.
16. SAR Report of Engineering Accreditation Panel, Universiti Kebangsaan Malaysia, 2013.
17. SAR Report of Engineering Accreditation Panel, Universiti Malaysia Perlis, 2013.
18. SAR Report of Engineering Accreditation Panel, Taylor University, 2013.

PLENARY LECTURE / KEYNOTE ADDRESS

1. **Keynote Speaker,** Switch Beamforming Network for 5G Mobile Communication Technology, International Conference on Communication Systems and Networks (ComNet 2019), Kerala, India.

2. **Keynote Speaker,** Smart Antenna Beamforming Network for 5G Mobile Communication Technology, The Second International Conference on Science,Engineering and Technology (ICoSET 2019), Indonesia.
3. **Keynote Speaker**, International AdWiTech Seminar University Telekom Indonesia
4. **Keynote Speaker,** Smart Antenna Beamforming Network for 5G Mobile Communication Technology, International Conference On Innovative Technologies In Electronics ,Information And Communication Technologies (INTELINC 18), India, 2018.
5. **Keynote Speaker**, 5G Mobile Communication: Vision and Antenna Realization, International Symposium on Technology Management and Emerging Technology, 2014, Indonesia.

INVITED/GUEST SPEAKER

1. **Invited Speaker -** 6th International Conference on Space Science and Communication, 2019.
2. **Invited Speaker -** IEEE Asia Pacific Conference on Applied Electromagnetics, 2019 (APACE 2019).
3. **Invited Speaker,** "Overcoming Writing Block in Post Graduate Training: 5G Communication Technology", Universitas Ahmad Dahlan 2019.
4. **Invited Speaker,** Oil and Gas Festival 2018 (OGFest'18),
5. **Invited Speaker,** IEEE Asia Pacific Conference on Applied Electromagnetics (APACE 2016)
6. **Invited Speaker** at the International Conference on the Advances in Electrical, Electronic and Systems Engineering 2016 (ICAEESE 2016)
7. **Invited Speaker**, Compact Size of CPW Dual-Band Meander-Line Transparent Antenna for WLAN Applications, IEEE Asia Pacific Conference on Applied Electromagnetics, 2014.
8. Speaker Suruhanjaya Kommuniksi MUltimedia Malaysia SKMM-WCC Short Course "Antenna and Propagation", 2013.
9. Speaker Suruhanjaya Kommuniksi MUltimedia Malaysia SKMM-WCC Short Course "Basic Spectrum Management" ,2012.
10. Speaker Suruhanjaya Kommuniksi MUltimedia Malaysia SKMM-WCC Short Course "Antenna and Propagation" ,2012.
11. Speaker Suruhanjaya Kommuniksi MUltimedia Malaysia SKMM-WCC Short Course "Basic Spectrum Management" , 2011.
12. Speaker Suruhanjaya Kommuniksi MUltimedia Malaysia SKMM-WCC Short Course "Radio Communication System",2009.

13. Speaker “Radio Communication System”, Astronautic Technology Sdn Bhd (ATSB), 2008.
14. Speaker Short Course of Radio Communication System, Sudan Students 2008.

VISITING RESEARCHER ACTIVITIES/INTIVED RESEARCHERS

1. Visiting Researcher University of Rennes 1, 2016.
2. Visiting Researcher Swinburn University, Sarawak Branch, 2016.
3. Visiting Researcher University of Rennes 1, 2015.
4. Invited Professor to IEC/TC 49 Japanese National Committee Workshop, Nagoya, Japan, 2013.
5. Visiting Researcher Nagoya Institute of Technology, Japan, 2013.
6. Visiting Researcher Ryukoku University, Japan, 2013.
7. Visiting Researcher Yokohama University, Japan, 2013.
8. Invited Professor to IEC/TC 49 Japanese National Committee Workshop, Tokyo,Japan, 2012.
9. Visiting Researcher Delft University, Holland, 2012.
10. Visiting Researcher Uppsala University, Sweden, 2012.
11. Visiting Researcher Katholieke University Leuven, Belgium, 2012.
12. Visiting Researcher The University of Hong Kong, 2012.
13. Visiting Researcher The University of Birmingham, 2010.

MOA & MOU

1. MOU: University of Rennes 1, France, 2016.
2. MOA: The Establishment of EMF Remote Monitoring Stations Near Base Station Sites (UTM-SKMM), 2013
3. MOA: The Establishment of EMF Emission Real Time Monitoring Through Website (UTM-SKMM), 2013.
4. MOU: Redtone Network Sdn Bhd and UTM “Research Collaboration”, 2013.
5. MOU: Altel Communications Sdn Bhd and UTM “Joint Research Grant, Planning of Altel's UTM Campus LTE Network”, 2013.
6. MOU: National Central University, Taiwan and UTM, 2013.
7. MOA: The Upgrade of Long Term Evolution Laboratory (UTM-SKMM), 2013.

8. MOA: Study on Convergence Between Mobile and Broadcast Technology and The Establishment of SKMM-UTM RF Propagation Laboratory (UTM-SKMM), 2013.
9. MOA: The establishment of Specific Absorption Rate Measurement Facility (UTM-SKMM), 2013.