**Biography**



**Taimoor Khan, Ph.D.**

Founder Chair (2023), IEEE APS Joint Section Chapter-Silchar, General Chair (2023), IEEE SILCON-2023,

Founder General Chair (2022), IEEE SILCON-2022, Founder Chair (2021), IEEE Silchar Subsection

IETE-Prof SVC Aiya Memorial Award Winner (2020)

*FIE, FIETE, FATMS LSMWAMS, LMACES, SMIEEE, SMIEEE(AP-S), SMIEEE(MTT-S), SMURSI*

**Associate Professor,** Department of Electronics and Communication Engineering, NIT Silchar

**Associate Dean (Academic),** NIT Silchar, Silchar, Assam-788 010, India,

**E-mail (Official):** [**ktaimoor@ece.nits.ac.in**](mailto:ktaimoor@ece.nits.ac.in); **E-mail** **(Personal)**: [**ktaimoor@gmail.com**](mailto:ktaimoor@gmail.com)

**Mobile/Whatsapp No:** +91-9411823416, **Alternate Mobile No:** +91-9864782439

**Biography of Dr. Taimoor Khan**

**Taimoor Khan** (SM-17, M-14, GSM-11) awarded his PhD Degree in Electronics and Communication Engineering from NIT Patna in 2014. Dr. Khan joined the Department of Electronics and Communication Engineering, NIT Silchar, India as an Assistant Professor the same year and presently he is working as an Associate Professor in the same department. He also worked as a Visiting Assistant Professor at Asian Institute of Technology, Bangkok, Thailand during July-December 2016 and Visiting Researcher at Queen’s University Canada in September-October 2019. Before joining NIT Silchar, he served different organizations for more than 14 years including Delhi Technological University for around three years. His active research interests include Ambient RF Energy Harvesting, Machine Learning Techniques for Modeling and Optimization of Electromagnetics Problems, Ultra-Wideband Antenna Technologies, Electromagnetic Bandgap Structures and Dielectric Resonator Antennas. He is the recipient of prestigious IETE Professor SVC Aiya Memorial Award 2020 for providing excellence guidance in the field of electromagnetic and microwave engineering. He has successfully guided seven Ph.D. Theses and has published 77 international journal articles, 56 international conference articles, three Indian patents, and two edited books. He has successfully completed one SERB funded major project and two minor funded projects of MHRD and AICTE and presently executing two international collaborative SPARC and VAJRA projects with Queen’s University Canada and California State University, Northridge, California, respectively. He is a Fellow of Institution of Engineers, Fellow of Institute of Electronics and Telecommunication Engineers and Fellow of Antenna Test and Measurement Society (ATMS), and Senior Member of IEEE, Senior Member IEEE AP Society, Senior Member IEEE MTT Society and Senior Member of URSI Belgium. Dr. Khan is accompanying as an Associate Editor with IET Electronic Letters, Associate Editor with a Hindawi-Wiley’s International Journal of RF and Microwave Computer Aided Engineering and as a Section Editor with IEEE Open Journal of Antennas and Propagation. Dr. Khan is the Founder (2019) of IEEE MTT Society SBC at NIT Silchar, Founder Chair (2021) of IEEE Silchar Subsection, Founder General Chair (2022) of SILCON Conference (A Flagship Conference of IEEE Silchar Subsection), General Chair (2023) of SILCON-2023 and Founder Chair (2023) of IEEE APS Joint Section Chapter-Silchar. Also, he is serving as a Regional Coordinator (R10) for IEEE AP-S Chapter Activity Committee, IEEE AP-S Paper Awards Subcommittee, and IEEE AP-S Chapter Award Committee and as a Co-Chair, IEEE AP Society Best Paper Award Committee, all for the year 2023.

**Curriculum Vitae**

**Taimoor Khan, Ph.D.**



Founder Chair (2023), IEEE APS Joint Section Chapter-Silchar, General Chair (2023), IEEE SILCON-2023,

Founder General Chair (2022), IEEE SILCON-2022, Founder Chair (2021), IEEE Silchar Subsection

IETE-Prof SVC Aiya Memorial Award Winner (2020)

*FIE, FIETE, FATMS LSMWAMS, LMACES, SMIEEE, SMIEEE(AP-S), SMIEEE(MTT-S), SMURSI*

**Associate Professor,** Department of Electronics and Communication Engineering, NIT Silchar

**Associate Dean (Academic),** NIT Silchar, Silchar, Assam-788 010, India,

**E-mail (Official):** [**ktaimoor@ece.nits.ac.in**](mailto:ktaimoor@ece.nits.ac.in); **E-mail** **(Personal)**: [**ktaimoor@gmail.com**](mailto:ktaimoor@gmail.com)

**Mobile/Whatsapp No:** +91-9411823416, **Alternate Mobile No:** +91-9864782439

**Summary of Academic Achievements:**

* 1. **Highest Qualification:** Ph.D. (Engineering) from **National Institute of Technology Patna, India** (Dissertation: Analysis and Synthesis of Microstrip Antennas using Artificial Neural Networks, Supervisor: Prof. Asok De).
  2. **Academic Experience:** 21 Years+
  3. **International Academic Assignment:**
  4. Worked as Visiting Researcher at Queen’s University Canada and Royal Military College, Canada under ongoing International Collaborative SPARC Project during September-October 2019.
  5. Worked as Visiting Assistant Professor in School of Engineering and Technology at Asian Institute of Technology Bangkok, Thailand under Secondment Programme of MHRD, Govt. of India during Aug.-Dec. 2016.
  6. **Research Interests:** Ambient RF Energy Harvesting and Microwave Power Transfer, Ultra-Wideband Technology and Applications, Artificial Intelligence for Modeling and Optimization of Electromagnetics Problems, Electromagnetic Bandgap Structures, Dielectric Resonator based Microwave Components.
  7. **Teaching Interests:** Electromagnetics, Microwave Engineering, Antenna and Wave Propagation.
  8. **Research Publications:** 78 SCIE Journals (Annexure-A is enclosed) + 52 Conferences (Annexure-B is enclosed)
  9. **Edited Books:** 06 Nos. (As Editors and Co-Editor).
  10. **Ph.D. Theses: Guided-**07 Nos. and **Ongoing:** 05 Nos.
  11. **M. Tech. Dissertation Guided/On-going:** 10 Nos.
  12. **Details and status of patents filed/accepted/commercialized: 03 No.**
      1. Indian Patent (Application No. 202111056214), Neeta Singh, **Taimoor Khan** and Binod Kumar Kanaujia, ***“Self-Sustainable Power Harvesting Device”***, (1) Filed on 03-12-2021. (2) Published on 10-12-2021. (3) Reply-1 Submitted on 23-04-2022. (4) Reply-2 Submitted on 04-10-2022. (5) Granted: 02 August 2023.
      2. Indian Patent (Application No. 202111010790), **Taimoor Khan** and Partha Pratim Shome, ***“A Compact Quad-Element Ultra-wideband Quasi-Monopole MIMO Antenna System for Smart Home Digital Entertainment Network”***, (1) Filed on 15-03-2021. (2) Published on 07 December 2022.
      3. Indian Patent (Application No. 202231056172), **Taimoor Khan** and Debanjali Sarkar, ***“Flip-Flop Topology Based Deep Neural Network Framework”***, (1) Filed on 30-09-2022. (2) Published on 09-12-2022.
  13. **Course/FDP/Workshop/Conference/Meet Organized:** 13 Nos. (Annexure-B is enclosed for details)
  14. **Course/FDP/Workshop/Conference/Meet Attended:** 30 Nos. (Annexure-C is enclosed for details)
  15. **B. Tech. Project Work Guided/ On-going:** 32 Nos. (Annexure-D is enclosed for details)
  16. **Experimental/Computational Design Kits Developed:** 
      1. 05 Nos. of Experimental Kits for Basics Electronics Laboratory during AY 2005-06 in Shobhit Institute of Engineering and Technology Meerut, U.P., Meerut, India.
      2. 05 Nos. of Experimental Kits for Digital Electronics Laboratory during 2006-07 in Shobhit Institute of Engineering and Technology Meerut, U.P., Meerut, India.
  17. **Award, Honours, etc. Received:**

|  |  |  |
| --- | --- | --- |
| **Year** | **Name of Award/Recognition** | **Awarded By** |
| **Award, Honours etc.** | | |
| **2020** | IETE-Prof. SVC Aiya Memorial Award 2020 | IETE New Delhi, India |
| Dr. Khan was recipient of a prestigious IETE-Prof SVC Aiya Memorial Award for the year 2020 for providing excellence guidance in the field of electronics and telecommunication research work particularly related to electromagnetic and microwave engineering. This award is instituted by the students of Prof S.V. Chandrashekhar Aiya in memory of their professor at IISc Bangalore. The Award is bestowed annually by IETE India to a person for providing excellence guidance in the field of electronics and telecommunication research work particularly related to electromagnetic and microwave engineering during the past five years**.** Dr. Khan was the luckiest one to receive this award for the year 2020 in 63rd Annual IETE Convention held on 27th September 2020. | | |
| **2009** | Certificate of Excellence (For Getting Highest Score in M. Tech.) | Shobhit Institute of Engineering and Technology  (A Deemed to be University) Meerut, U.P. |
| **2001** | Topper (3rd Year) in Polytechnic Diploma | Government Polytechnic Saharanpur, U.P., India |
| **2000** | Topper (2nd Year) in Polytechnic Diploma | Government Polytechnic Saharanpur, U.P., India |
| **1999** | Topper (1st Year) in Polytechnic Diploma | Government Polytechnic Saharanpur, U.P., India |
| **1998** | College Topper in Intermediate | National Public Inter College, Jalalabad, District- Muzaffarnagar, U.P., India |

* 1. **Professional Recognition (IEEE)/IEEE Voluntary Services**

|  |  |  |
| --- | --- | --- |
| **Professional Recognition (IEEE)** | | |
| **Calendar Year 2023** | | |
| **2023** | Founder Chair, IEEE APS Joint Chapter | IEEE AP Society, USA |
| **2023** | Co-Chair, IEEE AP-S Paper Award Committee | IEEE AP Society, USA |
| **2023** | Regional Coordinator of IEEE AP-S Chapter Activity Committee for Asia Pacific (Region 10) | IEEE AP Society, USA |
| **2023** | Regional Coordinator of IEEE AP-S Chapter Award Committee for Asia Pacific (Region 10) | IEEE AP Society, USA |
| **2023** | Member of Executive Committee (EC), IEEE AP-MTTS Chapter of IEEE Kolkata Section | IEEE AP-MTTS Chapter of IEEE Kolkata Section |
| **2023** | Immediate Past Chair, IEEE Silchar Subsection | IEEE Silchar Subsection |
| **2023** | General Chair, IEEE SILCON-2023 (A Flagship Conference of IEEE Silchar Subsection) | IEEE Silchar Subsection |
| **2023** | Faculty Advisor, IEEE MTT-S SBC NIT Silchar | IEEE MTT Society, USA |
| **Calendar Year 2022** | | |
| **2022** | Regional Coordinator of IEEE AP-S Chapter Activity Committee for Asia Pacific (Region 10) | IEEE AP Society, USA |
| **2022** | Regional Coordinator of IEEE AP-S Chapter Award Committee for Asia Pacific (Region 10) | IEEE AP Society, USA |
| **2022** | Member of Executive Committee (EC), IEEE AP-MTTS Chapter of IEEE Kolkata Section | IEEE AP-MTTS Chapter of IEEE Kolkata Section |
| **2022** | Member of Executive Committee (EC), IEEE Kolkata Section | IEEE Kolkata Section |
| **2022** | Faculty Advisor, IEEE MTT-S Student Branch Chapter (SBC) NIT Silchar | IEEE MTT Society, USA |
| **2022** | General Chair, IEEE SILCON-2022 (A Flagship Conference of IEEE Silchar Subsection) | IEEE Silchar Subsection, India |
| **2022** | Chair, IEEE Silchar Subsection | IEEE USA |
| **Calendar Year 2021** | | |
| **2021** | Interim Chair (Founder Chair), IEEE Silchar Subsection | IEEE USA |
| **2021** | Faculty Advisor, IEEE MTT-S SBC NIT Silchar | IEEE MTT Society, USA |
| **Calendar Year 2020** | | |
| **2020** | Faculty Advisor, IEEE MTT-S SBC NIT Silchar | IEEE MTT Society, USA |
| **Calendar Year 2019** | | |
| **2019** | Founder Faculty Advisor, IEEE MTT SBC, NIT Silchar | IEEE MTT Society, USA |

1. **Educational Qualifications**
   1. High School with Science Stream from U.P. Board, Allahabad in 1996.
   2. Intermediate with PCM Group from U.P. Board, Allahabad in 1998.
   3. Three Year Polytechnic Diploma in Electronics Engineering from Board of Technical Education Lucknow (Government Polytechnic Saharanpur, U.P., India) in 2001.
   4. Bachelor Degree (AMIE) in Electronics and Communication Engineering from The Institution of Engineers (India), Kolkata, India in 2005.
   5. Master Degree (M.Tech.) in Communication Engineering from Shobhit Institute of Engineering and Technology (Deemed to be University) Meerut, UP, India in 2009
   6. Doctorate (Ph.D.) in Electronics and Communication Engineering from National Institute of Technology Patna, Bihar, India in 2014 (**Thesis Topic:** Analysis and Synthesis of Microstrip Antennas using Artificial Neural Network and Thesis Supervisor: Prof. Asok De)
2. **Academic Experience (21 Years+)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.**  **No.** | **Institute** | **Designation** | **Period** | | |
| **From** | **To** | **Duration** |
| **National Academic Experience** | | | | | |
| 1. | National Institute of Technology Silchar, Assam | Associate Professor (9500 AGP, Level 13A2) | 06-07-2022 | Till Date | -- |
| Assistant Professor (8000 AGP, Grade I, Level 12) | 31-05-2018 | 05-07-2022 | 4Y+1M+6D |
| Assistant Professor (6000 AGP, Grade II, Level 10) | 10-11-2014 | 30-05-2018 | 3Y+6M+21D |
| 2. | Netaji Subhas Institute of Technology Patna, Bihar | Associate Professor and HOD | 03-06-2013 | 08-11-2014 | 1Y+5M+6D |
| 3. | Delhi Technological University Delhi | Assistant Professor | 30-03-2011 | 31-05-2013 | 2Y+2M+2D |
| Research Scholar | 30-12-2009 | 29-03-2011 | 1Y+3M |
| 4. | Shobhit Institute of Engineering and Technology (A Deemed to be University) Meerut, U.P. | Assistant Professor | 01-08-2007 | 28-12-2009 | 2Y+4M+20D |
| Lecturer | 01-01-2006 | 31-07-2007 | 1Y+7M |
| Lab Instructor | 13-08-2001 | 31-12-2005 | 4Y+4M+19D |
| **International Academic and Research Experience** | | | | | |
| 5. | Queen’s University Canada  and Royal Military College of Canada | Visiting Researcher | 13-09-2019 | 09-10-2019 | 27D |
| 6. | Asian Institute of Technology Bangkok, AIT Bangkok, Thailand | Visiting Assistant Professor | 26-08-2016 | 25-12-2016 | 3M+29D |

1. **Administrative Responsibilities**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.**  **No.** | **Institute** | **Designation** | **Period** | | |
| **From** | **To** | **Duration** |
| 1. | National Institute of Technology Silchar, Assam  **(Institute Level Responsibilities)** | **Associate Dean (Academic)** | **29-11-2021** | **Till Date** | **--** |
| 2. | Associate Warden, Hostel 5 | 10-10-2019 | 20-05-2022 | 2Y+7M+10D |
| 3. | National Institute of Technology Silchar, Assam  **(Department Level Responsibilities)** | **Founder Lab Incharge, Advanced Antenna and RF Lab** | **08-04-2018** | **Till Date** | **--** |
| 4. | **Coordinator, Departmental Annual Stock Verification Committee** | **08-04-2018** | **Till Date** | **--** |
| 5. | Coordinator, B. Tech. Projects | 08-04 2018 | 08-09-2021 | 3Y+5M |
| 6. | Netaji Subhas Institute of Technology Patna, Bihar **(Institute Level Responsibilities)** | HOD, ECE Dept. | 03-06-2013 | 08-11-2014 | 1Y+5M+5D |

1. **Funded Research Projects**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.**  **No.** | **Name and Role of Investigator** | **Foreign Collaborator** | **Project Title** | **Funding**  **Agency** | **Sanctioned Fund and Status** |
| **Ongoing** | | | | | |
| 1. | Taimoor Khan, Mentor | - | Circularly Polarized Electrically Small Efficient Rectenna Design for Wireless Power Transferred IoT Devices | IEEE, USA | 3000 USD  Ongoing |
| 2. | Taimoor Khan,  **Lead Indian Collaborator** | Prof. Sembiam R. Rengarajan, California State University Northridge, USA | Some Investigations on Design and Development of Efficient Printed Components for 5G Wireless Communications | SERB, GoI (VAJRA Scheme) | 108.348 Lakh  ongoing  (2020-2023) |
| 3. | Taimoor Khan,  **Indian Principal Investigator** | Prof. Yahia M.M. Antar and  Prof. Al. P. Freundorfer,  Queen’s University Canada | Design and Development of Dielectric Resonator Based Electromagnetic Sensors for Efficient Harvesting of Renewable RF Ambient Energy in Smart City Applications | MHRD, GoI (SPARC Scheme) | INR 49.59 Lakh  Ongoing  (2019-2022) |
| 4. | Taimoor Khan  **Co-Principal Investigator** | - | Development of a Prototype of Disabled-Friendly Automatic Virtual Text-Entry Keyboard Interface System under Practical Environmental Conditions | SERB, GoI (IMPRINT Scheme) | INR 89.45 Lakh |
| **Completed (Major Funded Project)** | | | | | |
| 5. | Taimoor Khan, **Principal Investigator** | Development of EBG-Structured Printed Antennas for Ultrawideband Communication and Futuristic Modeling for Prediction of Performance Parameters using Computational Intelligence Techniques | | SERB, GoI  (CRG Scheme) | INR 16.28 Lakh  (2017-2022) |
| **Completed (Minor Funded Projects)** | | | | | |
| 6. | Taimoor Khan  **Course Coordinator** | One-Week ATAL Faculty Development Programme on “Information and Communication Technologies for Smart City Applications”, ICT4Smart2021 | | AICTE New Delhi (ATAL FDP Scheme) | INR 93000  (11-15 Jan 2021) |
| 7. | Taimoor Khan, **Course Coordinator** | GIAN Course onAntennas for RF Energy Harvesting Applications: Design, Development, and Challenges | | MHRD, GoI  (GIAN Scheme) | INR 5.44 Lakh  (13-17 Nov 2017) |

1. **Research Collaborators**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Name of Professor** | **Affiliation** | **Nature of Collaboration** |
| **Foreign Collaborations** | | | |
| 1. | Prof. Sembiam R. Rengarajan, Life Fellow IEEE | Department of Electrical and Computer Engineering, California State University Northridge, California,  **Email:** [**sembiam.rengarajan@csun.edu**](mailto:sembiam.rengarajan@csun.edu) | VAJRA Project  **(2020-2023)** |
| 2. | Prof. Yahia M.M. Antar,  Life Fellow IEEE | Department of Electrical and Computer Engineering, Royal Military College of Canada, Kingston, Canada, **Email:** [**antar-y@rmc.ca**](about:blank) | SPARC Project  **(2019-2023)** |
| 3. | Prof. Alois P. Freundorfer | Department of Electrical and Computer Engineering, Queen's University, Kingston, Ontario, Canada,  **Email:** [**al.freundorfer@queensu.ca**](mailto:al.freundorfer@queensu.ca) |
| 4. | Dr. Nasimuddin, Scientist | Institute for Infocomm Research (I2R), Academy for Science, Technology and Research (A\*STAR) Singapore,  **Email:** [**nasim752000@yahoo.co.in**](mailto:nasim752000@yahoo.co.in) | GIAN Course  **(November 2017)** |
| 5 | Prof. Ahmed A. Kishk  Life Fellow | Department of Electrical and Computer Engineering  Concordia University, Canada, **Email:** [**kishk@ece.concordia.ca**](mailto:kishk@ece.concordia.ca) | Research Collaboration |
| **Indian Collaborations** | | | |
| 6. | Prof. Binod Kumar Kanaujia  Director, NIT Jalandhar | School of Computational and Integrative Sciences, Jawaharlal Nehru University Delhi, Delhi, India, **Email:** [**bkkanaujia@yahoo.co.in**](mailto:bkkanaujia@yahoo.co.in) | VAJRA Project  **(2019-2023)** |
| 7. | Prof. Asok De  (Ex-Director, NIT Patna) | Department of Electronics and Communication Engineering, Delhi Technological University, Delhi, India, **Email:** [**asok.de@gmail.com**](mailto:asok.de@gmail.com) | SPARC Project  **(2019-2023)** |
| 8. | Prof. Shiban K. Koul, (Emeritus Professor)  Life Fellow IEEE | Center for Advanced Research in Electronics (CARE), Indian Institute of Technology Delhi, India,  **Email:** [**shiban\_koul@hotmail.com**](mailto:shiban_koul@hotmail.com) | Research Collaboration |

1. **Editorial Activities:**
   1. Associate Editor, IET Electronic Letters

**(**[**https://ietresearch.onlinelibrary.wiley.com/hub/journal/1350911x/homepage/editorial-board**](https://ietresearch.onlinelibrary.wiley.com/hub/journal/1350911x/homepage/editorial-board)**)**

* 1. Associate Editor, International Journal of RF and Microwave Computer Aided Engineering

**(**[**https://www.hindawi.com/journals/ijmce/editors/**](https://www.hindawi.com/journals/ijmce/editors/)**)**

* 1. Section Editor, IEEE Open Journal of Antennas and Propagation

**(**[**https://ieeeaps.org/antennas-for-rf-energy-harvesting-and-wireless-power-transfer-applications**](https://ieeeaps.org/antennas-for-rf-energy-harvesting-and-wireless-power-transfer-applications)**)**

* 1. Guest Editor for Hindawi’ International Journal of Antennas and Propagation

**(**[**https://www.hindawi.com/journals/ijap/psi/page/2/**](https://www.hindawi.com/journals/ijap/psi/page/2/)**)**

1. **Ph.D. Theses Examiner**
   1. Mr. Mukesh Kumar Department of Electronics and Communication Engineering, University of Allahabad (Dec 2020).
   2. Mr. Devesh, Department of Electronics and Communication Engineering, University of Allahabad (October 2022).
   3. Mr. Amreesh Kumar, Department of Electronics and Communication Engineering, University of Allahabad (May 2023)
2. **Sponsored Project Evaluator**
   1. CRG Scheme, SERB, Govt of India (October 2021).
   2. CRG Scheme, SERB, Govt of India (February 2019).
   3. CRG Scheme, SERB, Govt. of India (September 2019).
3. **Active Reviewer of Journals:** 
   1. IEEE Transaction on Antenna and Propagation (**USA**)
   2. IEEE Transaction on Microwave Theory and Techniques (**USA**)
   3. IEEE Antennas and Wireless Propagation Letters (**USA**)
   4. IEEE Microwave and Wireless Component Letters **(USA)**
   5. IEEE Antennas and Propagation Magazine (**USA**)
   6. IEEE Microwave Magazine **(USA)**
   7. IET Microwaves, Antennas and Propagation (**UK**)
   8. Wireless Personal Communications (**Netherlands)**
   9. AEU-International Journal of Electronics and Communications **(Netherlands)**
   10. Journal of Electromagnetic wave and application (**USA**)
   11. International Journal of RF and Microwave Computer-Aided Engineering (**Wiley Interscience)**
   12. Microwave and Optical Technology Letters **(Wiley Interscience)**
   13. Microsystem Technologies
   14. IETE Journal of Research (**Taylor and Francis)**
   15. IETE Technical Review (**Taylor and Francis)**
   16. International Journal of Microwave and Wireless Technologies (**Cambridge Univ. Press)** and
   17. International Journal of Antenna and Propagation, **Hindawi**
4. **Ph.D. Thesis Guidance**

**(Ongoing: 04 Nos.)**

* 1. Mamoni Saha (Registration Id: **20-3-04-137)**, Thesis Topic (proposed): ***“Antenna Design and Prototype Development with Characterization*** ***for RF Energy Harvesting and Wireless Power Transfer Applications in 5G Millimeter Wave Environment***”.

**[Main-Supervisor]**

* 1. Shabnam Parween (Registration Id: **20-3-04-108)**, Thesis Topic (proposed): “***Wireless Energy Harvesting in 5G Wireless Communication*”**.

**[Co-Supervisor]**

* 1. Anjani Kumar (Registration Id **20-3-04-139**), Thesis Topic (proposed): “***DNN/CNN based Modeling and Optimization of Antennas for RFEH/WPT Applications***”.

**[Sole Supervisor]**

* 1. Praveen Likhitkar (Registration Id: **22-3-04-006**), Thesis Topic (proposed): “***Metasurface Loaded Antenna Design for Microwave Power Transmission Powered Biomedical Applications***”.

**[Sole Supervisor]**

**(Guided: 07 Nos.)**

* 1. Md. Ahsan Halimi (Registration Id: **19-3-04-105)**, Thesis Topic: ***Design and Development of Efficient Rectifier Circuits for RF Energy Harvesting and Wireless Power Transfer Applications***. **(2022-2023)**

**[Sole-Supervisor]**

* 1. Surender Daasari (Registration Id: **17-3-04-114)**,Thesis Topic: ***Design and Development of Efficient Rectenna for RF Energy Harvesting Applications***. **(2022-2023)**

[**Co-Supervisor]**

* 1. Debanjali Sarkar (Registration Id: **18-3-04-122)**, Thesis Topic: ***Modeling and Optimization of Ultra-Wideband Antennas using Computational Intelligence Techniques***. **(2021-2022)**

**[Main-Supervisor]**

* 1. Sumon Modak (Registration Id: **18-3-04-113)**, Thesis Topic: ***Some Investigations on Electromagnetic Interference Rejection in UWB Antennas using EBG Technology.* (2021-2022)**

**[Main-Supervisor]**

* 1. Partha Pratim Shome (Registration Id: **17-3-04-116**), Thesis Topics: ***Design, Development and Characterization of Efficient Planar Microwave Circuits for Ultra-wideband Applications.* (2020-2021)**

**[Sole-Supervisor]**.

* 1. Sounik Kiran Kumar Dash (Registration Id: **15-3-04-102)**, Thesis Topic: ***Design and Development of Dielectric Resonator Antennas with Improved Performances for Wireless Communication. (*2017-2018)**

**[Sole-Supervisor]**

* 1. Samineni Peddakrishna **(Registration Id. 15-3-04-124),** Thesis Topic: ***Design and Development of Compact EBG and FSS Structures for Printed Antenna Applications***. (**2017-2018)**

**[Sole-Supervisor]**

1. **Research Books Publications**
   1. **Taimoor Khan** and Ahmed A. Kishk, “Computational Intelligence Modeling for Radio-Frequency Planar Circuit Problems:A Beginner’s Guide” Nova Publishers, USA (To be published in December 2023).
   2. **Taimoor Khan,** Binod Kumar Kanaujia and Sembiam R. Rengarajan, “Printed Microwave Components for 5G Wireless Applications” Elsevier Springer (To be published in March/April 2024).
   3. Javaid A. Sheik, **Taimoor Khan** and Binod Kumar Kanaujia, “Intelligent Signal Processing and RF Energy Harvesting for state of art 5G and B5G Networks”, Springer Nature (In Press)
   4. **Taimoor Khan** and Yahia M.M. Antar,“Band-Notch Characteristics in Ultra-Wideband Antennas”, CRC Press, T& F Group, Florida, USA, 2021, ISBN: 9780367754723, 9th June 2021. **DOI:** [**https://doi.org/10.1201/9781003163008**](https://doi.org/10.1201/9781003163008)
   5. **Taimoor Khan**, Nasimuddin and Yahia M.M. Antar, “*Elements of Radio Frequency Energy Harvesting and Wireless Power Transfer Systems*”, CRC Press, Taylor & Francis Group, Florida, USA, 2020, ISBN: 9780367246785, 12 Nov. 2020. **DOI:** [**https://doi.org/10.1201/9780429283918**](https://doi.org/10.1201/9780429283918)
   6. **Taimoor Khan** and Sounik Kiran Kumar Dash, “*Dielectric Resonator Antennas: Modeling and Optimization*” LAP Lambert Academic Publishing, European Union, ISBN: 9786139912117, Nov. 2018. **Link:** [**https://www.amazon.com/Dielectric-Resonator-Antennas-Modeling-Optimization/dp/6139912113**](https://www.amazon.com/Dielectric-Resonator-Antennas-Modeling-Optimization/dp/6139912113)
   7. **Taimoor Khan** and Samineni Peddakrishna, “*Development in Compact EBG and FSS Structures for Antenna Applications*”, LAP Lambert Academic Publishing, European Union, ISBN: 9783659853029, September 2018. **Link:** [**https://www.amazon.com/Development-Compact-Structures-Antenna-Applications/dp/365985302X**](https://www.amazon.com/Development-Compact-Structures-Antenna-Applications/dp/365985302X)
2. **Book Chapters Publications:**
   1. Book Chapter: **Taimoor Khan**, Partha Pratim Shome, Sembiam R. Rengarajan, Yahia M.M. Antar, “*Multi-functional Antennas for 5G Communication*”, Chapter 3 in book, Ladislau Matekovits, Binod Kumar Kanaujia, Jugul Kishor and Surendra Kumar Gupta, “*Printed Antennas for 5G Networks''*, April 2022, DOI: [**https://link.springer.com/book/10.1007/978-3-030-87605-0**](https://link.springer.com/book/10.1007/978-3-030-87605-0)
   2. Book Chapter: Sounik Kiran Kumar Dash and **Taimoor Khan**, “*Modeling of Dielectric Resonator Antennas using Numerical Methods Applied to EPR” Chapter-5, in the book, Ahmed M. Maghraby, “Topics from EPR Research”, February 2019, DOI:* [***https://www.intechopen.com/chapters/64373***](https://www.intechopen.com/chapters/64373)
3. **Subjects Teaching** 
   1. ***Odd Semester (July-December)***
      1. RF Design (EC-5245, Elective-II), M. Tech. (MLVLSI) 1st Semester.
      2. Satellite Communication (EC-437, Elective), B. Tech. (ECE) 7th Semester.
   2. ***Last Even Semester (Jan-July)***
      1. Electromagnetics Field Theory and Wave Propagation (EC 210), B. Tech. ECE, 4th Semester.
      2. RF and Microwave Engineering (EC 1308), B. Tech. (ECE) 6th Semester.
4. **Professional Memberships**

|  |  |  |
| --- | --- | --- |
| **Fellow** | | |
| Oct 2020 | Fellow, IEI, **F-1270717** | The Institution of Engineers (India), Kolkata, India |
| Oct 2018 | Fellow, IETE, **F 500907** | IETE, New Delhi, India |
| **Life Member** | | |
| Feb 2023 | Life Senior Member: **3010** | WAMS Society |
| Feb 2023 | Life Member ACES: **13406** | Applied Computational Electromagnetic Society |
|  | Life Member IAE (Hong Kong): **101745** | IAE Hong Kong |
|  | Life Member, ISTE (India): **116371** | ISTE India |
| **Senior Member** | | |
| Feb 2020 | Senior Member, URSI, **M2010294767** | International Union of Radio Science (URSI), Belgium |
| Aug 2017 | Senior Member, IEEE, **92059056** | IEEE, USA |
| Aug 2017 | Senior Member, IEEE AP Society, **92059056** | IEEE AP Society, USA |
| Aug 2017 | Senior Member, IEEE MTT Society, **92059056** | IEEE MTT Society, USA |
|  | Member IET (UK): **1100912296** | IET UK |
|  | Member EUMA (Belgium): **AM3709** | EUMA Belgium |
|  | Member InRaSS (India): **M2019018** | InRaSS India |

1. **Foreign Visits**
   1. Kingston, Canada **(September 16-October 03, 2019)**.
   2. Dubai, UAE **(September 4-6, 2019).**
   3. Bangkok, Thailand **(August 26-December 25, 2016).**
2. **Attached Annexure Details**
   1. **Journals Publication Details:** Please refer to the attached **Annexure-A.**
   2. **Conference Publication Details:** Please refer to the attached **Annexure-B.**
   3. **Technical** **Talk Delivered:** Please refer to the attached **Annexure-C.**
   4. **Academic Events Organized:** Please refer to the attached **Annexure-D.**
   5. **Academic Events Attended:** Please refer to the attached **Annexure-E.**
   6. **M. Tech. Project Guidance:** Please refer to the attached **Annexure-F.**
   7. **B. Tech. Project Guidance:** Please refer to the attached **Annexure-G.**
3. **Academic References**
   1. ***Prof. Asok De, (Ph.D. Supervisor)***, Department of Electronics and Communication Engineering, Delhi Technological University, Delhi, India, **Email:** [**asok.de@gmail.com**](mailto:asok.de@gmail.com)**, Mobile: +91-981818106**
   2. ***Prof. Fazal Ahmed Talukdar***, ***(Senior Colleague at NIT Silchar)*** Department of Electronics and communication Engineering, National Institute of technology Silchar, Silchar, Assam, India, Email [**fazal@ece.nits.ac.in**](mailto:fazal@ece.nits.ac.in)**;** [**fatalukdar@gmail.com**](mailto:fatalukdar@gmail.com)**, Mobile: +91-9613871119; +91-9435071119**
   3. ***Prof. Shiban K. Koul (Life Fellow IEEE)***, Emeritus Professor, Center for Applied Research in Electronics (CARE), Indian Institute of Technology Delhi, India, **Email:** [**shiban\_koul@hotmail.com**](mailto:shiban_koul@hotmail.com)**;** [**skkoul@care.iitd.ac.in,**](mailto:skkoul@care.iitd.ac.inM) **Mobile: +91-8588867801**
   4. ***Prof. S.C. Dutta Roy (Life Fellow IEEE),*** Former Professor, Indian Institute of Technology Delhi, 164, SFS (DDA) Apartments, Hauz Khas, New Delhi-110016, India, **Email:** [**s.c.dutta.roy@gmail.com**](mailto:s.c.dutta.roy@gmail.com)**, Mobile: +91-9871470136**
   5. ***Prof.******Sembiam R. Rengarajan****,* ***(Life Fellow IEEE)*, VAJRA Project Partner,** California State University Northridge, USA, **E-mail:** [**sembiam.rengarajan@csun.edu**](mailto:sembiam.rengarajan@csun.edu)**, Mobile: +1-6264373244/+1-8186773571**
   6. ***Prof. Yahia M.M. Antar (Life Fellow IEEE),* SPARC Project Partner,** Royal Military College of Canada, Canada, **E-mail:** [**antar-y@rmc.ca**](mailto:antar-y@rmc.ca)**, Mobile: +1-6134840237**

**(Dr. Taimoor Khan)**

**Place:** NIT Silchar, Assam

**Annexure-A**

**International Journal Publications (77 Nos.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.**  **N.** | **Name of Journal with Ranking** | **Ranking** | **Impact Factor** | **No. of Papers Published** |
| 1 | IEEE Transactions on Antennas and Propagation | **Q1** | **4.824** | **03** |
| 2 | IEEE Access | **Q1** | **3.476** | **01** |
| 3 | IEEE Antennas and Wireless Propagation Letters | **Q1** | **3.825** | **02** |
| 4 | IEEE Microwave and Wireless Components Letters | **Q1** | **2.719** | **01** |
| 5 | IEEE Antennas and Propagation Magazine | **Q1** | **3.719** | **06** |
| 6 | IEEE Sensor Journal | **Q1** | **4.610** | **01** |
| 7 | IEEE Internet of Things Journal | **Q1** | **11.043** | **01** |
| 8 | Springer Nature’s Artificial Intelligence Review | **Q1** | **9.588** | **01** |
|  | | | | |
| 1 | IEEE Microwave Magazine | **Q2** | **3.062** | **06** |
| 2 | IET Microwaves, Antennas and Propagation | **Q2** | **1.824** | **03** |
| 3 | IEEE Sensor Letters | **Q2** | **2.358** | **01** |
| 4 | IETE Technical Review, Taylor and Francis | **Q2** | **1.932** | **02** |
| 5 | AEU-International Journal of Electronics and Communication | **Q2** | **3.169** | **10** |
| 6 | Wireless Personal Communications, Springer | **Q2** | **2.017** | **02** |
| 7 | Microsystem Technologies, Springer | **Q2** | **2.012** | **01** |
| 8 | International Journal of RF and Microwave Computer Aided Engineering, Wiley | **Q2** | **1.987** | **15** |
| 9 | Radio Science, Wiley | **Q2** | **1.68** | **01** |
|  | | | | |
| 1 | Microwave and Optical Technology Letters, Wiley | **Q3** | **1.311** | **03** |
| 2 | International Journal of Microwave and Wireless Technologies, Cambridge Univ. Press | **Q3** | **1.09** | **06** |
| 3 | International Journal of Antenna and Propagation, Hindawi | **Q3** | **1.244** | **02** |
| 4 | IETE Journal of Research, Taylor and Francis | **Q3** | **1.877** | **02** |
| 5 | International Journal of Electronics, Taylor and Francis | **Q3** | **1.457** | **02** |
| 6 | Journal of Electromagnetics Waves and Applications, Taylor and Francis | **Q3** | **1.438** | **02** |
| 7 | Journal of Microwave Power and Electromagnetic Energy, Taylor and Francis | **Q3** | **1.850** | **01** |
| 8 | Progress in Electromagnetic Research C | **Q3** | **1.68** | **02** |
| **Total Publications = 77 (Q1: 16, Q2: 41, Q3: 20)** | | | |  |

**Accepted/Published Articles in Calendar Year 2024**

1. Sounik Kiran Kumar Dash, Qingsha S. Cheng, **Taimoor Khan**, Manish Varun Yadav, Lei Wang*, “*5G Millimeter-Wave MIMO DRAs with Reduced Mutual Coupling*”* ***Microwave and Optical Technology Letters, Wiley Interscience***, Vol. 66, Issue 1,January 2024. DOI:[**https://doi.org/10.1002/mop.33982**](https://doi.org/10.1002/mop.33982).

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1. Md. Ahsan Halimi, **Taimoor Khan**, Ahmed A. Kishk and Yahia M.M. Antar, “Efficient Rectifier Circuit Operating at N78 and N79 Sub-6 GHz 5G Bands for Microwave Energy Harvesting and Power Transfer Applications”, ***International Journal of Microwave and Wireless Technologies, Cambridge Univ***, Vol… Issue…. 2023, Accepted on 18 September 2023.
2. Debanjali Sarkar, **Taimoor Khan**, Sembiam R. Rengarajan, “Prior-Knowledge Incorporated Forward and Reverse Neural Network Modeling for Estimating Performance Parameters of Band-Notched UWB MIMO Antennas”, ***IEEE Antennas and Propagation Magazine,*** Vol.…Issue…..2023, Accepted on 7 Sept 2023. DOI: [**https://doi.org/10.1109/MAP.2023.3330393**](https://doi.org/10.1109/MAP.2023.3330393)
3. Rakesh Nath Tiwari, Deepti Sharma, Prabhakar Singh, Vikrant Kaim, **Taimoor Khan**, and B.K. Kanaujia, “Design and Validation of Loop-based Ultraminiature Low-Profile Ultrawideband Capsule Antenna inside Wistar Rat”, ***IEEE Transactions on Ant and Propagation***, Vol. 71, Issue 10, October 2023. DOI: [**https://doi.org/10.1109/TAP.2023.3301952**](https://doi.org/10.1109/TAP.2023.3301952)
4. Partha Pratim Shome, **Taimoor Khan**, Ahmed A Kishk and Yahia M.M. Antar, “Quad-Element MIMO Antenna System using Half-Cut Miniaturized UWB Antenna for IoT-Based Smart Home Digital Entertainment Network" ***IEEE Internet of Things Journal***, Vol. 10, Issue 20, pp. 17964-17976, 15 October 2023, DOI: [**https://doi.org/10.1109/JIOT.2023.3280628**](https://doi.org/10.1109/JIOT.2023.3280628)
5. Merih Palandoken, Cem Gocen, **Taimoor Khan**, Zahriladha Zakaria, Issa Elfergani, Chemseddine Zebiri, Jonathan Rodriguez, Raed A Abd-Alhameed, “Novel Microwave Fluid Sensor for Complex Dielectric Parameter Measurement of Ethanol-Water Solution”, ***IEEE Sensor Journal***, Vol. 23, Issue 13, July 2023. DOI: [**https://doi.org/10.1109/JSEN.2023.3276817**](https://doi.org/10.1109/JSEN.2023.3276817)
6. Debanjali Sarkar, **Taimoor Khan**, Fazal A. Talukdar, and Sembiam R. Rengarajan, “Computational Intelligence for Modeling and Optimization of RFEH and WPT Systems: A Comprehensive Survey”, ***IEEE Microwave Magazine***, Vol. 24, Issue 9, pp. 46-60, September 2023. DOI: [**https://doi.org/10.1109/MMM.2023.3284764**](https://doi.org/10.1109/MMM.2023.3284764)
7. Daasari Surender, Md. Ahsan Halimi, **Taimoor Khan**, Fazal A. Talukdar, Nasimuddin and Sembiam R. Rengarajan, “5G/mmWave Rectenna Systems for RFEH/WPT Applications: An Overview”, ***IEEE Antennas and Propagation Magazine***, Vol. 65, Issue 3, pp. 57-76, June 2023. DOI: [**https://doi.org/10.1109/MAP.2022.3208794**](https://doi.org/10.1109/MAP.2022.3208794)
8. Md. Ahsan Halimi, **Taimoor Khan**, Merih Palandoken*,* Ahmed A. Kishk, and Yahia M.M. Antar, “Rectifier Design Challenges for WEH/WPT Systems: Broadening Bandwidth and Extending Input Power Range”, ***IEEE Microwave Magazine,*** Vol. 24, Issue 6, pp. 54-67, June 2023. DOI: [**https://doi.org/10.1109/MMM.2023.3256379**](https://doi.org/10.1109/MMM.2023.3256379)
9. Md. Ahsan Halimi, Partha Pratim Shome, **Taimoor Khan**, and Sembiam R. Rengarajan, “Efficient Single and Broadband Microwave Rectifiers for RFEH/WPT Enabled Low Power 5G Sub-6 GHz Devices”, ***AEU-International Journal of Electronics and Communication,*** Vol. 165, June 2023. DOI: [**https://doi.org/10.1016/j.aeue.2023.154645**](https://doi.org/10.1016/j.aeue.2023.154645)
10. Rakesh Nath Tiwari, Vikrant Kaim, Prabhakar Singh, **Taimoor Khan** and Binod Kumar Kanaujia, “Semi-Flexible Diversified Circularly Polarized Millimeter-Wave MIMO Antenna for Wearable Biotechnologies”, ***IEEE Transactions on Antennas and Propagation***, Vol. 71, Issue 5, pp. 3968-3982, May 2023. DOI: [**https://doi.org/10.1109/TAP.2023.3255507**](https://doi.org/10.1109/TAP.2023.3255507)
11. Debanjali Sarkar, **Taimoor Khan**, Jayadeva, and Ahmed A Kishk, “Machine Learning Assisted Hybrid Electromagnetic Modeling Framework and its Applications to UWB MIMO Antennas" ***IEEE Access***, Vol. 11, pp. 19645-19656, Feb 2023. DOI: [**https://doi.org/10.1109/ACCESS.2023.3248961**](https://doi.org/10.1109/ACCESS.2023.3248961)
12. M.A. Halimi, **Taimoor Khan,** D. Surender, Nasimuddin, and S.R. Rengarajan, “Dielectric Resonator Antennas for RFEH/WPT Applications: A State-of-Art Review”, ***IEEE Antennas and Propagation Magazine***, Published (Early Access) on 2 February 2023. DOI: [**https://doi.org/10.1109/MAP.2023.3236270**](https://doi.org/10.1109/MAP.2023.3236270)
13. Daasari Surender, Md. Ahsan Halimi, **Taimoor Khan**, Fazal A. Talukdar, and Yahia M.M. Antar, “A Triple Band Rectenna for RF Energy Harvesting in Smart City Applications'', ***International Journal of Electronics, Taylor and Francis***, Vol. 110, Issue 5, pp. 789-803, 2023, DOI: [**https://doi.org/10.1080/00207217.2022.2062797**](https://doi.org/10.1080/00207217.2022.2062797)
14. Daasari Surender, Md. Ahsan Halimi, **Taimoor Khan**, Fazal A. Talukdar, Binod Kumar Kanaujia, Karumudi Rambabu and Ahmed A. Kishk, “Analysis of Facet-Loaded Rectangular DR-Rectenna Designs for Multi-Source RF Energy Harvesting Applications'' ***IEEE Transactions on Antennas and Propagation,*** Vol. 71, Issue No 2, pp. 1273-1384, February 2023. DOI: [**https://doi.org/10.1109/TAP.2022.3231014**](https://doi.org/10.1109/TAP.2022.3231014)
15. Md. Ahsan Halimi, **Taimoor Khan**,Shiban K. Koul*,* and Sembiam R. Rengarajan,**“**A Dual-Band Rectifier Using Half-Wave Transmission Line Matching for 5G and Wi-Fi Bands RFEH/MPT Applications”, ***IEEE Microwave and Wireless Components Letters***, Vol. 33, Issue 1, pp. 74-77, January 2023. DOI:[**https://doi.org/10.1109/LMWC.2022.3197590**](https://doi.org/10.1109/LMWC.2022.3197590)
16. Md. Ahsan Halimi, **Taimoor Khan**, Nasimuddin, Ahmed A. Kishk, and Yahia M.M. Antar, “Rectifier Circuits for RF Energy Harvesting and Wireless Power Transfer Applications: A Comprehensive Review Based on Operating Conditions”, ***IEEE Microwave Magazine***, Vol. 24, No. 1, January 2023. DOI:[**https://doi.org/10.1109/MMM.2022.3211594**](https://doi.org/10.1109/MMM.2022.3211594)

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1. Partha P. Shome, **Taimoor Khan**, Binod K Kanaujia, Ahmed A. Kishk, and Yahia M. M. Antar, “Uni-directive Miniaturized Ultra-Wideband Antenna for Sensing Buried Objects in Handheld Ground Penetrating Radar Systems”, ***IEEE Antennas and Propagation Magazine,* Early Access,10 Nov 2022**. DOI: [**https://doi.org/10.1109/MAP.2022.3203311**](https://doi.org/10.1109/MAP.2022.3203311)
2. Daasari Surender, **Taimoor Khan**, Fazal A. Talukdar, and Yahia M.M. Antar, “Rectenna Design and Development Strategies for Wireless Applications: A Review*'',* ***IEEE Antennas and Propagation Magazine****,* Vol. 64, Issue 5, PP. 16-29, October 2022, DOI: [**http://doi.org/10.1109/MAP.2021.3099722**](http://doi.org/10.1109/MAP.2021.3099722)
3. Sumon Modak, Partha Pratim Shome, Md Ahsan Halimi, **Taimoor Khan**, Ahmed A. Kishk, and Tayeb A. Denidni, “Band-stop Filtering for Electromagnetic Interference Rejection in Printed UWB Components Using Single Compact Archimedean Spiral EBG Cell”, ***Progress in Electromagnetic Research (PIER) C***, Vol. 126, pp. 23-37, 2022. DOI: [**https://doi.org/doi:10.2528/PIERC22082407**](https://doi.org/doi:10.2528/PIERC22082407)
4. Aijaz M. Zaidi, Binod K. Kanaujia**, Taimoor Khan**, Mirza Tariq Beg, Karun Rawat, Karumudi Rambabu and Sembiam R. Rengarajan, “Multi-Band Design Techniques for Passive Planar Microwave Circuits: A Review”, ***IEEE Microwave Magazine***, Vol. 23, No. 9, pp. 57-69, September 2022, DOI:[**http://doi.org/10.1109/MMM.2022.3180496**](http://doi.org/10.1109/MMM.2022.3180496)
5. Md. Ahsan Halimi, **Taimoor Khan**, Ahmed A. Kishk, and Sembiam R. Rengarajan, “Design of A Frequency Selectable Rectifier Using Tuned Matching Circuit for RFEH Applications'', ***IETE Journal of Research, Taylor and Francis***, Published online on 21 August 2022, DOI: [**https://doi.org/10.1080/03772063.2022.2112986**](https://doi.org/10.1080/03772063.2022.2112986)
6. Md. Ahsan Halimi, Daasari Surender, **Taimoor Khan**, Ahmed A. Kishk, and Sembiam R. Rengarajan, “A Multi-Stepped Transmission Line Matching Strategy based Triple-band Rectifier for RFEH/WPT Applications'', ***IEEE Microwave and Wireless Components Letters***, Vol. 32, No. 8, pp. 1007-1010, August 2022, DOI: [**https://doi.org/10.1109/LMWC.2022.3162633**](https://doi.org/10.1109/LMWC.2022.3162633)
7. Aijaz M. Zaidi, **Taimoor Khan**, Mirza Tariq Beg, Binod K. Kanaujia, and Karumudi Rambabu, “Dual-Band Design Techniques for Microwave Passive Circuits: A Review and Potential Applications”, ***IEEE Microwave Magazine***, Vol. 23, No. 07, July 2022, pp. 61-77, DOI: [**http://doi.org/10.1109/MMM.2022.3163454**](http://doi.org/10.1109/MMM.2022.3163454)
8. Daasari Surender, **Taimoor Khan**, Fazal A. Talukdar, Asok De, Yahia M.M. Antar, and Al. P. Freundorfer, “Key Components of Rectenna System: A Comprehensive Survey'', ***IETE Journal of Research, Taylor and Francis***, Vol. 68, Issue 5, pp. 3379-3405, September-October 2022. DOI: [**https://doi.org/10.1080/03772063.2020.1761268**](https://doi.org/10.1080/03772063.2020.1761268)
9. Sumon Modak, Surender Daasari, Partha Pratim Shome and **Taimoor Khan**, “Switchable/Tunable Band-Notched Characteristics in UWB and UWB-MIMO Antennas: A Comprehensive Review, ***Wireless Personal Communications, Springer***, Published online on 14 September 2022, DOI: [**https://doi.org/10.1007/s11277-022-10036-1**](https://doi.org/10.1007/s11277-022-10036-1)
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11. Daasari Surender, Md. Ahsan Halimi, **Taimoor Khan**, Fazal A. Talukdar, and Yahia M.M. Antar, “A 900 Twisted Quarter-Sectored Compact and Circularly Polarized DR-Rectenna for RF Energy Harvesting Applications'', ***IEEE Antennas and Wireless Propagation Letters***, Vol. 21, No. 6, pp. 1139-1143, June 2022. DOI:  [**http://doi.org/10.1109/LAWP.2022.3159482**](http://doi.org/10.1109/LAWP.2022.3159482)
12. Sumon Modak, **Taimoor Khan** and Rabul Hussain Laskar, “Loaded UWB Monopole Antenna for Quad Band-Notched Characteristics”, ***IETE Technical Review,*** ***Taylor and Francis***, Vol. 39, Issue 3, pp. 568-576, May-June 2022. DOI: [**https://doi.org/10.1080/02564602.2021.1878942**](https://doi.org/10.1080/02564602.2021.1878942)
13. Debanjali Sarkar, **Taimoor Khan**, Fazal A. Talukdar and Yahia M.M. Antar, “Computational Intelligence Paradigms for UWB Antennas: A Comprehensive Review of Analysis, Synthesis and Optimization” ***Springer Nature’s Artificial Intelligence Review***, Published online on 21 April 2022, DOI:[**https://doi.org/10.1007/s10462-022-10181-w**](https://doi.org/10.1007/s10462-022-10181-w)
14. Daasari Surender, Md. Ahsan Halimi, **Taimoor Khan**, Fazal A. Talukdar, Ahmed A. Kishk, Yahia M.M. Antar, Sembiam R. Rengarajan, “Semi-Annular-Ring Slots Loading for Broadband Circularly Polarized DR-Rectenna for RF Energy Harvesting in Smart City Environment Applications'', ***AEU-International Journal of Electronics and Communications***, Elsevier, Vol. 147, April 2022. DOI: [**https://doi.org/10.1016/j.aeue.2022.154143**](https://doi.org/10.1016/j.aeue.2022.154143)
15. Sumon Modak, **Taimoor Khan**, Tayeb A. Denidni, and Yahia M.M. Antar, “Miniaturized Self-Isolated UWB MIMO Planar/Cuboidal Antenna with Dual X-Band Interference Rejection”, ***AEU-International Journal of Electronics and Communications***, Elsevier. Vol 143, January 2022, DOI: [**https://doi.org/10.1016/j.aeue.2021.154020**](https://doi.org/10.1016/j.aeue.2021.154020)
16. Daasari Surender, Md. Ahsan Halimi, **Taimoor Khan**, Fazal A. Talukdar, Shiban K. Koul and Yahia M.M. Antar, “2.45 GHz Wi-Fi Band Operated Circularly Polarized Rectenna for RF Energy Harvesting in Smart City Applications'', ***Journal of Electromagnetics Waves and Applications, Taylor and Francis,*** vol. 36, issue 3, pp. 407-423, January 2022. DOI: [**https://doi.org/10.1080/09205071.2021.1970030**](https://doi.org/10.1080/09205071.2021.1970030)

**Published Articles in Calendar Year 2021**

* + - 1. Partha P. Shome, **Taimoor Khan**, Shiban K. Koul, and Yahia M.M. Antar, “Filtenna Designs for RF Front End Modules: A Structural Oriented Review”, ***IEEE Antennas and Propagation Magazine***, Vol 63, No. 5, pp. 72-84. October 2021, DOI: [**http://doi.org/10.1109/MAP.2020.2988518**](http://doi.org/10.1109/MAP.2020.2988518)
      2. Partha Pratim Shome, **Taimoor Khan**, Shiban K. Koul and Yahia M.M. Antar, "Two Decades of UWB Filter Technology: From Elementary Designs to Recent Developments", ***IEEE Microwave Magazine***, Vol. 22, No. 8, pp. 32-51, August 2021. DOI: [**https://doi.org/10.1109/MMM.2021.3078040**](https://doi.org/10.1109/MMM.2021.3078040)
      3. Debanjali Sarkar, **Taimoor Khan** and Fazal Ahmed Talukdar, “Hyperparameters Optimization of Neural Network using Improved Particle Swarm Optimization for Modeling of Electromagnetic Inverse Problems”, ***International Journal of Microwave and Wireless Technologies, Cambridge University Press***, Vol. 14, Issue 10, pp. 1326–1337, 17 December 2021. DOI: [**https://doi.org/10.1017/S1759078721001690**](https://doi.org/10.1017/S1759078721001690)
      4. Sumon Modak, and **Taimoor Khan**, “Cuboidal Quad-Port UWB-MIMO Antenna with WLAN Rejection Using Spiral EBG Structure”, ***International Journal of Microwave and Wireless Technologies, Cambridge University***, Vol. 14, pp. 626-633, Published online on 20 May 2021, DOI: [**https://doi.org/10.1017/S1759078721000775**](https://doi.org/10.1017/S1759078721000775)
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      6. Sounik Kiran Kumar Dash, Qingsha Cheng, Rusan Kumar Barik, **Taimoor Khan,** and Karthikeyan S S**,** “A Compact Dual-Fed Highly Isolated SIW Based Self-Diplexing Antenna”, ***AEU-International Journal of Electronics and Communications***, Elsevier, Vol. 132, pp. 1-6, April 2021. DOI: [**https://doi.org/10.1016/j.aeue.2021.153613**](https://doi.org/10.1016/j.aeue.2021.153613)

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**Annexure-B**

**Conference Publications (56 Nos.)**

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Partha Pratim Shome and **Taimoor Khan**, “Reconfigurable Ultra-wideband Bandpass Filter with Controlled Band-Notches for Dynamic Operation”, IEEE International Microwave Filter Workshop (IMFW-2024), 21-23 February 2023, Florida, USA (Submitted).

Sembiam R. Rengarajan and **Taimoor Khan**, “Printed Flexible/Wearable Antennas for 5G Applications: A Review”, National Radio Science Meeting, 9-13 January 2024, Boulder, USA. (Accepted)

Anjani Kumar, Debanjali Sarkar and **Taimoor Khan, “**Comparative Analysis of Machine Learning Techniques for Resonant Frequency Prediction for Printed Microstrip Antennas”, IEEE Silchar Subsection Conference, SILCON-2023, 3-5 November 2023 (Accepted).

Debanjali Sarkar, Anjani Kumar, **Taimoor Khan** and Sembiam R. Rengarajan, “Applications of Deep Learning Algorithms for RFEH, WPT and SWIPT Systems: A Review”, ***URSI GASS 2023, Sapporo,*** Japan, 19 – 26 August 2023.**Doi:** [**https://doi.org/10.23919/URSIGASS57860.2023.10265420**](https://doi.org/10.23919/URSIGASS57860.2023.10265420)

Partha Pratim Shome, **Taimoor Khan**, Ajay Poddar, “Slotted Stepped Impedance Ring Resonator Embedded Multi-Resonant Filtering DRA for 5G Sub-6 GHz Applications”, ***2023 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting***, 23-28 July 2023, Portland, USA. **DOI:** [**https://doi.org/**](https://doi.org/)[**10.1109/USNC-URSI52151.2023.10238269**](https://doi.org/10.1109/USNC-URSI52151.2023.10238269)

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Debanjali Sarkar, Anjali Kumar, **Taimoor Khan** and Sembiam R. Rengarajan, “Deep Neural Network Modeling of UWB Antennas for GPR Applications”, ***URSI International Symposium on Electromagnetic Theory***, EMTS-2023, University of British Columbia, Vancouver, BC, Canada, 23-26 May 2023. **DOI:** [**https://doi.org/**](https://doi.org/)[**10.1109/WAMS57261.2023.10242897**](https://doi.org/10.1109/WAMS57261.2023.10242897)

Partha Pratim Shome, Nikhil Nagrath and **Taimoor Khan**, “UWB Antenna Design for Detection of Buried Objects using Microwave Imaging”, ***Proc. of International Conference on Microwave, Antenna and Communication (MAC2023)***, MNIT Allahabad, 24-26 March 2023. **DOI:** [**https://doi.org/**](https://doi.org/)[**10.1109/MAC58191.2023.10177106**](https://doi.org/10.1109/MAC58191.2023.10177106)

Sanjay Kumar Sharma, Akhilendra Pratap Singh, **Taimoor Khan**, “A Compact Dual U-shape of slots loaded Microstrip Patch Antenna for Sub-6 GHz 5G RFEH and WPT Applications, ***Proc. of International Conference on Microwave, Antenna and Communication (MAC2023)***, MNIT Allahabad, 24-26 March 2023. **DOI:** [**https://doi.org/**](https://doi.org/)[**10.1109/MAC58191.2023.10177073**](https://doi.org/10.1109/MAC58191.2023.10177073)

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Sounik Kiran Kumar Dash, **Taimoor Khan and** Mandovi Borthakur “Circularly Polarized Conical Dielectric Resonator Antenna for X-Band Applications: An Experimental Study”, ***Proc. of European Microwave Week 2017***, Nurnberg Convention Center, Nurnberg, Germany, Oct. 8-13, 2017, pp. 433-436. **DOI:** [**https://doi.org/10.23919/EURAD.2017.8249240**](https://doi.org/10.23919/EURAD.2017.8249240)

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**Taimoor Khan** and Asok De, “Neural Computation of Resonant Frequency of Equilateral Triangular Patch Microstrip Antennas”, ***Proc. of International Conference on Computer, Communication, Control & Information Technology (C3IT-2009)***, Academy of Technology, Kolkata, India, February 6-7, 2009.

**Annexure-C**

**Technical Talks Delivered**

**Delivered in Calendar Year 2023**

1. Invited Speaker, Topic-1: ***Vector Calculus (12 June 2023)***, Topic-2: ***Electrostatics (12 June 2023)*** and Topic-3: ***Magnetostatics (13 June 2023)***, in SERB Sponsored VAJRA Course on ***Fundamentals of Electromagnetics (EMF-2023)***, Jointly Organized by National Institute of Technology Silchar (India), Jawaharlal Nehru University Delhi (India) and California State University Northridge (USA) in Association with IEEE Kolkata Section Antennas and Propagation Society Joint Chapter-Silchar and IEEE Silchar Subsection and Hosted at Department of Electronics and Communication Engineering, National institute of Technology Silchar, India during 12-16 June 2023.
2. Invited Speaker, Topic: ***Machine Learning Assisted Electromagnetic Framework for Modeling and Optimization of Antenna Application (6 June 2023) i****n SERB Sponsored High-End Workshop (Karyashala) on* ***Futuristic Trends in Microwave and Millimeter Wave Technologies: An ML Approach (FMMT-2023)***, Organized by Department of Electronics and Communication Engineering, National Institute of Technology Silchar, India June 1-7, 2023.
3. Invited Speaker, Topic: ***Facet-Loaded Dielectric Resonator based Rectenna Design for Multi-Source RF Energy Harvesting Applications”*, (14 May 2023),** SERB funded Karyashala  
   on “Hands-on Training on Design, Fabrication and Testing of 5G Antenna Using Machine Learning”  
   Department of Electronics and Communication Engineering, SVNIT Surat, India, May 12- 19, 2023.
4. Invited Speaker, Topic: ***“RF Energy Harvesting for Making Self-sustainable Batteryless Internet of Things (IoT)/Wireless Devices/Sensor Nodes” (*18 Feb 2023)**, 10 days online Faculty Development Program (FDP) on " Recent Trends in Antenna Engineering and its Applications " 13th to 23rd February 2023, jointly organized by the Department of Electronics and Communication Engineering, Rajalakshmi Institute of Technology (RIT) Chennai, Tamil Nadu in association with Electronics & ICT Academy, NIT Warangal sponsored by Ministry of Electronics and Information Technology (MeitY), Govt of India.

**Delivered in Calendar Year 2022**

1. Invited Speaker, Topic: **“Powering Biomedical/Healthcare Devices using RF Energy Harvesting”**, (12 May 2022), Ten (10) Days Online FDP on “Application of Applied Signal Processing, Communications and Devices for IoT driven e-Health Care” Jointly Organized by EICT Academy NIT Warangal-Telangana and Department of Electronics and IT, University of Kashmir- Srinagar [**12th-21st May 2022**]
2. Invited Speaker, Topic: “***Computational Intelligence for Modelling of Printed Components in Bio-Medical /Healthcare Applications”*** (16 May 2022), Ten (10) Days Online FDP on “Application of Applied Signal Processing, Communications and Devices for IoT driven e-Health Care”, Jointly Organized by EICT Academy NIT Warangal-Telangana and Department of Electronics and IT, University of Kashmir- Srinagar [**12th-21st May 2022**]

**Delivered in Calendar Year 2021**

1. **Invited Speaker,** Topic: **“Fundamentals of Electromagnetic Waves” (24 Aug 2021) and Topic-2: “RF Energy Harvester and Some Applications”** (25 Aug 2021), ATAL FDP on RF Energy Harvesting Antenna Design for Wireless Body Area Network: Design, Development and, Challenges, Sri Vasavi Engineering College, Tadepalligudem, Andhra Pradesh, India, 23-27 Aug 2021.

**Delivered in Calendar Year 2020**

1. **Invited Speaker,** Topic: ***“Hybrid Computational Intelligence Paradigms for Antenna Problems”***, AICTE-Short Term Training Programme (STTP) Phase-II on AI-MIMO: Millimeter (mm) Wave and Massive MIMO Applications for 5G Wireless Networks using AI, Organized by Department of Electronics and Communication Engineering, Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad, Telangana, 14-19 December 2020.
2. **Invited Speaker**, Topic: **“Analysis and Synthesis Modeling of Ultra-Wideband Antennas using Artificial Intelligence Techniques”** *AICTE sponsored Online Short-Term Training Programme (STTP) on Millimeter (mm) Wave and Massive MIMO Applications for 5G wireless Networks using Al*, organized by Department of Electronics and Communication Engineering, Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad, Telangana 16-21 November 2020.
3. **Invited Speaker,** Topic-1: **“Ultra-Wideband Antenna Technology for Biomedical/Healthcare Applications”** and Topic-2: **“RF Energy Harvesting System for Biomedical/Healthcare Applications”** AICTE Sponsored One-Week National Level Online Faculty Development Program on “Research Areas in Biomedical Signal Processing”, Department of Electronics & Communication Engineering, Sri Vasavi Engineering College, Tadepalligudem, Andhra Pradesh, India, 16-21 Nov 2020.
4. **Invited Speaker,** Topic: **“EBG Structures and Their Applications in Antenna Engineering”**, IEEE Webinar Series, organized by IEEE Antennas & Propagation Society (Madras Chapter) in Association with IEEE-APS, IEEE-Student Branch, Department of Electronics and Communication Engineering, Kongu Engineering College (Autonomous), Perundural, Tamil Nadu, India, October-November 2020.
5. **Invited Speaker**, Topic: **“Fundamental Aspects for Designing an Efficient RF Energy Harvesting System”**, Short Term Training Program on “Recent Trends in RF Technology for 5 G and IoT (RTRT2020)” Organized by Dept. of ECE, SVNIT Surat, India, 12-16 Oct 2020.
6. **Invited Speaker**, Topic: **“Computational Intelligence Modeling for Printed Microwave Circuits”** TEQIP Sponsored One-week webinar on “Recent Trends in Signal Processing and Communication”, RTSPC-20, organized by Department of Electronics and Communication Engineering, NIT Silchar, India, 10-14 September 2020.
7. **Invited Speaker**, Topic: **“Electromagnetic Interference Cancellation Techniques in Ultra-Wideband Antenna Technology”,** TEQIP sponsored One-Week Webinar on “RF & Millimeter-wave Technologies”, RMWT-2020 organized by ECE Dept. NIT Silchar, India, 29 Aug.-02 Sept. 2020.
8. **Invited Speaker**, Topic: **“Ultra-Wideband Antenna Technology”** in One Day National Webinar on Next Generation Antenna, jointly organized by Institution of Electronics and Telecommunication Engineers, Bhopal Centre, Gwalior Sub Centre, The Institute of Electrical and Electronics Engineers (IEEE M.P. Sub Section) and The Institution of Engineers (India), Gwalior Chapter on 02 August 2020.
9. **Invited Speaker**, Topic: **“Knowledge-Based Neural Network Modeling for Antenna Problems”**, in International e-Conference on Bio-Electronics and Informatics in the Present Scenario: ECBI-2020, June 26-27, 2020 at Shobhit University Meerut, U.P., India.
10. **Invited Speaker**, Topic: **“Artificial Intelligence Paradigm in Antenna Engineering”** in Two Days Online Faculty Development Programme on Trends in Technological Intelligence (T2I-2020) at Babu Banarasi Das Northern India Institute of Technology, Lucknow, U.P. India.
11. **Paper Presenter**, Topic: **“A Novel Configuration of Stepped Rectangular Printed Monopole Antenna for UWB Applications”**, in *URSI RCRS 2020,* at IIT (BHU), Varanasi, India, during 12-14 February, 2020.
12. **Paper Presenter,** Topic: **“Design and Performance Comparison of Printed Monopole Antennas with Elliptical Radiator for UWB Applications”** in *URSI RCRS 2020,*at IIT (BHU), Varanasi, India during 12-14 February, 2020.

**Delivered in Calendar Year 2019**

1. **Paper Presenter**, Topic: **“Novel Design of Printed Antenna Integrated with Bandpass Filter for C-band Applications”**,in *2019 URSI-Asia Pacific Radio Science Conference (URSI AP-RASC 2019)* at India Habitat Center, New Delhi, India during 09-15 March 2019.
2. **Paper Presenter,** Topic: **“EBG-Loaded Dielectric Resonator Antenna for Triple Band-Notch Characteristics”** in *2019 URSI-Asia Pacific Radio Science Conference (URSI AP-RASC 2019* at India Habitat Center,New Delhi, India during 09-15 March 2019.

**Delivered in Calendar Year 2017**

1. **Invited Speaker,** Topic: **“Fundamentals of Antenna Arrays”** in *Six Days Invited Lecture Series on Microwave and its Applications* at Department of Electronics and Communication Engineering, Assam University, Silchar, Assam, India, March 22-28, 2017.

**Delivered in Calendar Year 2015**

1. **Invited Speaker** Topic: **“Analysis and Synthesis of Microstrip Antennas using Artificial Neural Networks”** in *IEEE UP Section Conference on Electrical, Computer and Electronics (UPCON)* at IIIT Allahabad, India during Dec. 4-6, 2015.

**Delivered in Calendar Year 2013**

1. **Paper Presenter,** Topic: **“A Generalized Neural Method for Simultaneous Computation of Resonant Frequencies of Rectangular, Circular and Triangular Microstrip Antennas”**, in *2013 International Conference on Global Innovation Technology and Science (ICGITS-2013)* at Saintgits College of Engineering, Kottayam, Kerala, India during April 4-6, 2013.

**Delivered in Calendar Year 2012**

1. **Invited Speaker**, Topic: **“Some Basic Fundamentals of Electromagnetics”** in *Two Days workshop on Emerging Trends in Engineering & Technology*, Kanjhalawa, Ghevra, Delhi-110081during May 7-8, 2012.

**Delivered in Calendar Year 2011**

1. **Paper Presenter**, Topic: **“Design of Circular/Triangular Patch Microstrip Antennas using a Single Neural Model”**, in *IEEE Applied Electromagnetic Conference (AEMC-2011)*, Kolkata, India during Dec. 18-22, 2011.
2. **Paper Presenter**, Topic: **“Neural Design of Circular Patch Microstrip Antennas”**, *Proc. of* *IEEE National Conference on Electrical, Electronics and Computer Engineering-(CALCON-2011)*, Jadavpur University, Kolkata, India during Nov. 4-5, 2011.

**Delivered in Calendar Year 2009**

1. **Paper Presenter**, Topic: **“Calculation of Resonant Frequency of Rectangular Patch Microstrip Antennas using Levenberg-Marquardt Neural Networks”**, *Prof. of International Symposium on Microwave and Optical Technology (ISMOT-2009)*, Ashoka Hotel, New Delhi, India during Dec. 16-19, 2009.
2. **Paper Presenter**, Topic: **“Neural Design of Equilateral Triangular Patch Microstrip Antennas”**, in *International Conference on VLSI and Communication (ICVcom-2009)*, Saintgits College of Engineering, Kottayam, Kerala, India during April 16-18, 2009.
3. **Paper Presenter**, Topic: **“Neural Computation of Resonant Frequency of Equilateral Triangular Patch Microstrip Antennas”**, *Proc. of* *International Conference on Computer, Communication, Control & Information Technology (C3IT-2009)*, Academy of Technology, Kolkata, India during February 6-7, 2009.

**Annexure-D**

**Expert Lecture Series/Course/FDP/Workshop/Conference/Meet Organized (28 Nos.)**

**Organized in Calendar Year 2023**

1. One Day IEEE Workshop (Hybrid Mode) on “Engineering Electromagnetics to Electromagnetic Engineering” jointly organized by IEEE APS Joint Section Chapter-Silchar, IEEE MTTS Student Branch Chapter, and IEEE Silchar Subsection in association with Department of Electronics and Communication Engineering, NIT Silchar on 19 December 2023 **in the capacity of convenor.**
2. IEEE APS Distinguished Lecturer Talk, titled***“Antenna Booster Technology for IoT: From Fundamentals to Applications”*** jointly organized by IEEE APS Joint Section Chapter-Silchar, IEEE MTTS Student Branch Chapter, and IEEE Silchar Subsection in association with Department of Electronics and Communication Engineering, NIT Silcharon 11 December 2023 **in the capacity of Convenor.**
3. IEEE APS Distinguished Lecturer Talk *on* ***“Metamaterials – A Manipulation of Waves”***jointly organized by IEEE APS Joint Section Chapter-Silchar, IEEE MTTS Student Branch Chapter, and IEEE Silchar Subsection in association with Department of Electronics and Communication Engineering, NIT Silchar on 4 December 2023 **in the capacity of Convenor.**
4. IEEE AP- and MTT-Societies Sponsored One Day Symposium on *“Futuristics Antenna and Microwave Technologies for Space Applications” (FAMT4Space-2023)* on 29th August 2023 **in the capacity of Convenor.**
5. IEEE Distinguished Talk on ***“Engaging Undergraduate Students in Research”*** delivered by Dr. Ravi Kumar Arya”, Distinguished Professor, Xiangshan Laboratory, Zhongshan Institute of Changchun University of Science and Technology, China on 2nd August 2023 **in the capacity of Convenor.**
6. IEEE APS Distinguished Lecture on **“*Phased Array Antenna Modeling: From the Array Factor to Network Theory and Array Signal Processing*”**, delivered by Prof. Karl F. Warnick, Brigham Young University, USA on 6th July 2023 **in the capacity of Convenor.**
7. IEEE APS Distinguished Lecture on “***Design, Analysis, and Applications of Waveguide-Fed Slot Arrays***” delivered by Prof. Sembiam R. Rengarajan, California State University Northridge, USA (Hybrid Mode) on 28th June 2023 **in the capacity of Convenor.**
8. One Week *Indo-US VAJRA Course on* ***“Fundamentals of Electromagnetics”, EMF-2023*** in association with Jawaharlal Nehru University Delhi (India) and California State University Northridge (USA) during 12-16 June 2023 **in the capacity of Convenor.**
9. VAJRA General Public Talk on ***“The Legacy of James Clerk Maxwell”***delivered by Prof. Sembiam R. Rengarajan, California State University Northridge, USA (Hybrid Mode) on 9th June 2023 **in the capacity of Convenor.**

**Organized in Calendar Year 2022**

1. IEEE Silchar Subsection Conference, SILCON-2022 organized by IEEE Silchar Subsection at National Institute of Technology Silchar during 4-6 November 2022 **in the capacity of General Chair.**
2. IEEE MTT-S Distinguished Lecture on **“*Bioelectronics and Bionic Age: How Electronics Touch Our Hearts and Minds”*** *delivered by* ***Prof. Cynthia M. Furse from University of Utah, USA*** jointly organized by IEEE MTT-S Student Branch Chapter, NIT Silchar, IEEE Silchar Subsection, and Department of Electronics and Communication Engineering, NIT Silchar on 22nd September 2022 **in the capacity of Coordinator.**
3. IEEE MTT-S Distinguished Lecture on ***“Semiconductor Electronics for High Power/High Speed Reconfigurable RF and Microwave Electronics*”** delivered by **Prof. Robert H. Caverly** from **Villanova University, Villanova, USA**, jointly organized by IEEE MTT-S Student Branch Chapter, NIT Silchar, IEEE Silchar Subsection and Department of Electronics and Communication Engineering, NIT Silchar on 9th September 2022 **in the capacity of Coordinator.**
4. IEEE MTT-S Distinguished Lecture on ***“RF Design for Ultra-Low-Power Wireless Communication Systems: Efficiently Miniaturizing and Passively Sensing”*** delivered by **Prof. Jasmin Grosinger** from **Graz University of Technology, Austria**, jointly organized by IEEE MTT-S Student Branch Chapter, NIT Silchar, IEEE Silchar Sub section and Department of Electronics and Communication Engineering, NIT Silchar on 15th March 2022 **in the capacity of Coordinator.**
5. IEEE MTT-S Distinguished Lecture on ***“Portable Radar Systems for Life Activity Sensing, Anomaly Detection, And Human Tracking”*** delivered by **Prof. Changzhi Li** from **Texas Tech University**, USA, jointly organized by IEEE MTT-S Student Branch Chapter, NIT Silchar and Department of Electronics and Communication Engineering, NIT Silchar on13-02-2022 **in the capacity of Coordinator.**

**Organized in Calendar Year 2021**

1. IEEE MTT-S Distinguished Lecture on “***Recent Developments in Computational Electromagnetics using The Finite Difference Time Domain Method***” delivered by **Prof. Atef Z. Elsherbeni** from **Colorado School of Mines**, USA, jointly organized by IEEE MTT-S Student Branch Chapter, NIT Silchar and Department of Electronics and Communication Engineering, NIT Silchar on 18th September 2021 **in the capacity of Coordinator.**
2. IEEE MTT-S Distinguished Lecture on ***“Dynamical Modeling for Electromagnetic Problems: The Need of Artificial Intelligence Era*”** delivered by **Prof. Mei Song Tong from Tongji University Shanghai, China,** jointly organized by IEEE MTT-S Student Branch Chapter, NIT Silchar and Department of Electronics and Communication Engineering, NIT Silchar on 14th September 2021 **in the capacity of Coordinator.**
3. IEEE MTT-S Distinguished Lecture on “***Future THz Wireless Sensing and Communication: Interdisciplinary Approaches***” delivered by **Prof. Kaushik Sengupta, Princeton University, New Jersey, USA**, jointly organized by IEEE MTT-S Student Branch Chapter, NIT Silchar and Department of Electronics and Communication Engineering, NIT Silchar on 26th August 2021 **in the capacity of Coordinator.**
4. IEEE MTT-S Distinguished Lecture on **“*Analog Photonic Systems: Features & Techniques to Optimize Performance*”** delivered by **Dr. Edward I. Ackerman, Vice President of R&D, Photonic Systems, Inc. of Billerica, Massachusetts, USA**, jointly organized by IEEE MTT-S Student Branch Chapter, NIT Silchar and Department of Electronics and Communication Engineering, NIT Silchar on 14th August 2021 **in the capacity of Coordinator.**
5. ***One-Day Workshop on “Protection of IPR in the Age of Internet: How, What and Why? (IPR-2021)”*** at the Institution's Innovation Council (IIC), National Institute of Technology Silchar on 21 March 2021 in the capacity of Organizing Secretary.
6. One Week Indo-US VAJRA Course on ***“Fundamentals of Electromagnetics”*,** **EMF-2021**, Jointly organized by National Institute of Technology Silchar, Jawaharlal Nehru University Delhi and California State University Northridge at Department of Electronics and Communication Engineering, National Institute of technology Silchar during 15-19 March 2021 **in the capacity of Convener**.

**Organized in Calendar Year 2020**

1. One Week Indo-Canada SPARC Students Research Conclave on ***“RF Energy Harvesting Systems” SRC-2020*** at Department of Electronics and Communication Engineering, NIT Silchar, Assam during December 11-15, 2020 **in the capacity of Convener.**
2. One Week Indo-Canada SPARC Course on ***“Dielectric Resonator and Its Applications”, DRA-2020*** at Department of Electronics and Communication Engineering, NIT Silchar, Assam during November 20-24, 2020 **in the capacity of Convener**.
3. One Week Indo-Canada SPARC-Workshop on ***“RF Energy Harvesting Systems (REHS-2020)”*** at Department of Electronics and Communication Engineering, NIT Silchar, Assam during July 17-21, 2020 **in the capacity of Convener.**

**Organized in Calendar Year 2019**

1. TEQIP III Sponsored One-week Workshop on **“*Recent Advancement in Microwave Engineering (RAME-2019)*”** at Department of Electronics and Communication Engineering, NIT Silchar, Assam during April 1-5, 2019 **in the capacity of Convener.**

**Organized in Calendar Year 2018**

1. TEQIP III Sponsored, One Week ***“Summer School on Antenna and Microwave Engineering (SUSAME-2018)”***, *at* Department of Electronics and Communication Engineering, NIT Silchar, Assam during July 23-27 2018 **in the capacity of Course Coordinator.**

**Organized in Calendar Year 2017**

1. MHRD Govt. of India funded **“*GIAN Course on Antennas for RF Energy Harvesting Applications: Design, Development and Challenges”*** at Department of Electronics and Communication Engineering, NIT Silchar, Assam during Nov. 13-17, 2017 **in the capacity of Course Coordinator.**
2. TEQIP-II sponsored ***“3 Days Workshop of Nano Science and Technology”***, Department of Electronics and Communication Engineering, NIT Silchar, Assam during March 2-4, 2017 **in the capacity of Member.**

**Organized in Calendar Year 2016**

1. TEQIP-II sponsored **“*Three Days Expert Lecture Series in Electronics and Communication Engineering”****,* Department of Electronics and Communication Engineering, NIT Silchar, Assam during Feb. 12-14 2016 **in the capacity of Coordinator.**
2. *A workshop on* ***“Advanced Fuzzy Logic”*** by Soft Computing Club under Lotfi A. Zadeh Initiative in Soft Computing (SCILAZ), at NIT Silchar, Assam during Feb. 1-8 2016 **in the capacity of member.**

**Organized in Calendar Year 2015**

1. *TEQIP Sponsored* ***“Three Days Workshop on Microelectronics and MEMS Technologies”*** atDepartment of Electronics and Communication Engineering, NIT Silchar, Assam during April 10-12, 2015 **in the capacity of Coordinator.**

**Organized in Calendar Year 2011**

1. Texas Instruments Sponsored **“*Workshop on Embedded System Design Using RISC Processor MSP-430*”** at Department of Electronics and Communication Engineering, Delhi Technological University Delhi during Dec. 12-14, 2011 **in the capacity of a member.**

**Annexure-E**

**Course/FDP/Workshop/Conference/Meet Attended (30 Nos.)**

**Attended in Calendar Year 2020**

1. ***Regional Conference on Radio Science (RCRS 2020) under International Union of Radio Science (URSI)*** *at IIT (BHU), Varanasi, India, during 12-14 February, 2020.*

**Attended in Calendar Year 2019**

1. TEQIP III Sponsored One-week Workshop on **“*Recent Advancement in Microwave Engineering (RAME-2019)”*** at Department of Electronics and Communication Engineering, NIT Silchar, Assam during April 1-5, 2019.

**Attended in Calendar Year 2018**

1. TEQIP III Sponsored, “***One Week Summer School on Antenna and Microwave Engineering (SUSAME-2018)***”, *at* Department of Electronics and Communication Engineering, NIT Silchar, Assam during July 23-27, 2018.

**Attended in Calendar Year 2017**

1. MHRD Govt. of India funded “***GIAN Course on Antennas for RF Energy Harvesting Applications: Design, Development and Challenges***”, Department of Electronics and Communication Engineering, NIT Silchar, Assam during Nov. 13-17, 2017.
2. ***Two Days “Train The Trainer” National Workshop on Massive Open Online Courses (MOOCs)*** Jointly Organized by National Institute of Technology Silchar and Thapar University Patiala at National Institute of Technology Silchar and Sponsored by Royal Academy of Engineering (UK) & TEQIP III during Aug. 26-27, 2017.
3. **TEQIP II Sponsored *“One Week Workshop on Advances in Stability Analysis on Dynamical Systems”*** Organized by Department of Mathematics, National Institute of Technology Silchar, India during 08-12 March 2017.
4. ***“Two Week ISTE STTP CMOS Mixed Signal and Radio Frequency VLSI Design”***under National Mission on Education through ICT (NMEICT), MHRD, Govt. of India organized by Indian Institute of Technology Kharagpur, India during Jan. 26-Feb. 4, 2017.

**Attended in Calendar Year 2015**

1. ***IEEE UP Section Conference on Electrical, Computer and Electronics (UPCON)*** organized by Indian Institute of Information Technology Allahabad, India during Dec. 4-6, 2015.
2. ***Faculty Development Program on “Recent Trends in Microwave and Antenna Technology”,*** organized by Department of Electronics and Communication Engineering, NIT Silchar, Assam, India during May 18-22, 2015.
3. ***Three Days Workshop on “Recent Trends in Microelectronics and MEMS Technology”***, organized by IEEE-EDS Student Branch Chapter and ECE Dept., NIT Silchar, Assam, India during April 10-12 2015.
4. ***“International Workshop on Soft Computing and Applications (ISCA’15)”*** jointly organized by Center for Soft Computing Research (CSCR), ISI, Kolkata and South Asian University, New Delhi during March 25-27, 2015.
5. ***“One Day Workshop on MEMS”*** organized by IEEE-EDS Student Branch Chapter and ECE Dept., NIT Silchar, Assam, India during Feb. 07, 2015.
6. ***“One Week Workshop on Fuzzy Sets and Fuzzy Logic”*** organized by Soft Computing Club, NIT Silchar, Assam, Indiaduring Feb. 02-06, 2015.

**Attended in Calendar Year 2014**

1. ***Two Days workshop on “Development of Assessment tools for Effective Implementation of Outcome Based Curriculum”*** at Department of Electrical Engineering, National Institute of Technology Silchar, India during Nov. 22-23, 2014.

**Attended in Calendar Year 2013**

1. ***TEQIP II Sponsored 3-Days Workshop on “Scientific Document Processing Using LATEX*”** at Department of Computer Science and Engineering, National Institute of Technology Patna, India during Dec. 22-24, 2013.
2. ***Two Days Workshop on “Intellectual Property Rights meets Information Technology-Series II*”** jointly organized by Department of Information Technology and Delhi School of Management, Delhi Technological University Delhi, India during May 2-3, 2013.
3. **“*International Conference on Global Innovation Technology and Science (ICGITS-2013)*”** at Saintgits College of Engineering, Kottayam, Kerala, India during April 4-6, 2013.

**Attended in Calendar Year 2012**

1. ***International Symposium on* “*Standards in Engineering and Technology 2012*”** at Department of Electronics and Communication Engineering Delhi Technological University, Delhi during Oct. 4-6, 2012.
2. ***Advanced Workshop on “Low Power-GREEN Embedded Systems Designs”*** at Department of Electronics and Communication Engineering, Delhi Technological University Delhi in collaboration with Renesas Electronics Singapore, during April 28-30, 2012.
3. ***Seminar-Cum-Workshop on “Mathematics and Computing (SWMC-2012)*”** at Department of Applied Mathematics, Delhi Technological University Delhi during March 22, 2012.

**Attended in Calendar Year 2011**

1. International Conference **“*2011 IEEE Applied Electromagnetic Conference (AEMC-2011)”*** at Hyatt Regency Kolkata, India during Dec. 18-22, 2011.
2. **“*IEEE National Conference on Electrical, Electronics and Computer Engineering-2011(CALCON-2011)*”** at Jadavpur University, Kolkata, India during Nov. 4-5, 2011.
3. **“*14th IEEE Quarterly Meet*”** at Ambedkar Institute of Technology Delhi (AITD), India on Sept. 3, 2011.

**Attended in Calendar Year 2010**

1. ***One Course on “Neural Networks”*** at Indian Institute of Technology Delhi (IITD), India during Aug. 26- Nov. 19, 2010.
2. **“*Workshop on Recent Trends in Image Processing*”** Organized by School of Electronics Engineering, Shobhit University, Meerut, India during Oct. 23, 2010.
3. ***Faculty Development Program (FDP) on* “*RF and Microwave Engineering with Emphasis on Hand-on Exercises*”** at Department of Electronics and Communication Engineering, Ambedkar Institute of Technology Delhi (AITD), India during June 14-26, 2010.
4. ***One Course on “Numerical Techniques in Electromagnetics”*** at Ambedkar Institute of Technology, Delhi, India during Jan.-May 2010.

**Attended in Calendar Year 2009**

1. **“*International Symposium on Microwave and Optical Technology (ISMOT-2009)*”** at Ashoka Hotel, New Delhi, India during Dec. 16-19, 2009.
2. **“*International Conference on VLSI and Communication (ICVcom-2009)*”** at Saintgits College of Engineering, Kottayam, Kerala, India during April 16-18, 2009.
3. **“*International Conference on Computer, Communication, Control & Information Technology (C3IT-2009)*”** at Academy of Technology, Hooghly, West Bengal, India during Feb. 6-7, 2009.

**Annexure-F**

**M. Tech. Dissertations (Guiding/Guided)**

1. Rajesh Das, ***“Design of a Millimeter-Wave Rectenna for Energy Harvesting”***, 2021-2022, ECE Dept., NIT Silchar, Assam, India. **(Joint Supervisor)**
2. Anandi Dutta, ***“End to End Malaria Disease Detection using Deep Learning Techniques”***, 2021-2022, ECE Dept, NIT Silchar, Assam, India. **(Joint Supervisor)**
3. Karnati Saikiran, **“*Design and Development of Efficient Rectifier Circuits using Graphene Technology for Low Power Sensors Applications*”**, 2020-2021, ECE Dept., NIT Silchar, Assam, India **(Joint Supervisor).**
4. Manumanthu Sureshkumar, **“*Design and Development of Efficient Rectifier Circuits using CMOS Technology for Low Power Sensors Applications*”**, 2020-2021, ECE Dept., NIT Silchar, Assam, India **(Joint Supervisor).**
5. Sanoj Mahato, **“*Band Notch Characteristics in Ultra-wideband MIMO Antennas*”**, 2019-2020, ECE Dept., NIT Silchar, Assam, India **(Joint Supervisor).**
6. Saurabh Kumar, ***“Design and Development of Triple Band EBG-Loaded UWB Antennas”***, 2017-2018, ECE Dept., NIT Silchar, Assam, India **(Supervisor).**
7. Sweety Kumari, **“*Wideband Slotted Antenna using Graphene Technology for Terahertz Communication*”**, 2016-2017, ECE Dept., NIT Silchar, Assam, India **(Supervisor).**
8. Chandan Roy, ***“SVM Modeling for Computing Performance Parameters of Microstrip Antennas”***, 2015-2016, ECE Dept., NIT Silchar, Assam, India **(Supervisor).**
9. Arcade NSHIMIYIMANA, **“*Investigation of Clustering Techniques and Throughput Analysis for Vehicular Communication in 5G*”**, 2015-2016, ECE Dept., NIT Silchar, Assam, India **(Co-Supervisor).**
10. Prabhat Sharma, **“*Design of Microstrip Antenna using DGS Structure*”**, 2012-2013, Shobhit University Meerut, U.P. **(Supervisor).**
11. Arjun Singh, **“*Design of YAGI-UDA Microstrip Antenna using EBG Structure*”**, 2012-2013, Shobhit University Meerut, U.P. **(Supervisor).**
12. Arun Kumar, **“*Design of MIMO Antenna using EBG Structures*”**, 2012-2013, Shobhit University Meerut, U.P. **(Supervisor).**
13. Prabhat Ranjan Mishra, **“*Design of Microstrip Antenna using Fractal Geometry*”**, 2011-2012, Shobhit University Meerut, U.P. **(Supervisor).**
14. Manish Kumar Savita, **“*Design and Optimization of Circularly Polarized Tri-mode Matched Feed for Parabolic Reflector*”**, Shobhit University Meerut, U.P. **(Supervisor)**

**Annexure-G**

**B. Tech. Projects (33 Nos.)**

**Academic Year 2021-2022**

1. Tanmoy Roy, ***“Rectenna Design for Millimeter Wave Communication”***, 2021-2022, ECE Dept., NIT Silchar.
2. Swrjima Rano Boro, ***“Ultra-Wideband Radar Technology for Wireless Applications”***, 2021-2022, ECE Dept., NIT Silchar.
3. Sai Charan Nallan, ***“Wireless Power Transfer Technology for Biomedical Applications”***, 2021-2022, ECE Dept., NIT Silchar.
4. Sayandeep Roy, ***“CMOS Rectifier for RF Energy Harvesting”***, 2021-2022, ECE Dept., NIT Silchar.
5. Manda Sai Kiran Reddy, ***“Rectenna Design for Sub 6 GHz 5G Applications”***, 2021-2022, ECE Dept., NIT Silchar.

**Academic Year 2020-2021**

1. Rajarshi Singha, ***“Wireless Power Transfer”***, 2020-2021, ECE Dept., NIT Silchar, Assam, India.
2. Nikhil Nagrath, ***“Ground Penetrating Radar and its Applications”***, 2020-2021, ECE Dept., NIT Silchar, Assam, India.
3. Ankur Jyoti Nath, ***“RF Energy Harvesting in 5G Networks”***, 2020-2021, ECE Dept., NIT Silchar, Assam, India.
4. Roshan Thakur, ***“5G MIMO Antennas”***, 2020-2021, ECE Dept., NIT Silchar, Assam, India.

**Academic Year 2019-2020**

1. Krishna Mohan,***“Design and Simulation of Efficient RF MEMS Components”****,* 2019-2020, ECE Dept., NIT Silchar, Assam, India.
2. Siddharth Praitm Bhagwathi, ***“Design and Simulation of Printed Antenna using Carbon Nano-Tube”***, 2019-2020, ECE Dept., NIT Silchar, Assam, India.
3. Saikiran Yadla, ***“Soil Moisture Estimation using Antenna Technology”***, 2019-2020, ECE Dept., NIT Silchar, Assam, India.
4. Sanjib Rajbongshi, ***“Designing of Circularly Polarized Dielectric Resonator Antenna for RF Energy Harvesting in 5G Environment”***, 2019-2020, ECE Dept., NIT Silchar, Assam, India.

**Academic Year 2018-2019**

1. Bhaskar Ganguali, ***“Smart Antenna System implementation using Microcontroller/FPGA/DSP Processors/VLSI”***, 2018-2019, ECE Dept., NIT Silchar, Assam, India.
2. Rizwan Ahmed, ***“SVM Modeling of EBG Structured UWB Antennas”***, 2018-2019, ECE Dept., NIT Silchar, Assam, India.
3. Ekansh Goyal, ***“ANFIS Modeling of EBG Structured-UWB Antennas”****,* 2018-2019, ECE Dept., NIT Silchar, Assam, India.
4. Shashank Kumar, ***“Tunable EBG-Structured UWB Antennas”***, 2018-2019, ECE Dept., NIT Silchar, Assam, India.
5. Donka Ramesh, ***“Reconfigurable EBG-Structured UWB Antennas”***, 2018-2019, ECE Dept., NIT Silchar, Assam, India.
6. Binoy Oli, ***“GA/PSO based modeling of EBG Structured UWB Antennas”***, 2018-2019, ECE Dept., NIT Silchar, Assam, India.

**Academic Year 2017-2018**

1. Pratyush Nandan, ***“Virtual Classroom”***, 2017-2018, ECE Dept., NIT Silchar, Assam, India.
2. Pritam Nath, ***“EBG Structures in Reconfigurable UWB Antennas”***, 2017-2018, ECE Dept., NIT Silchar, Assam, India.
3. Anindita Roy, ***“Flexible EBG-Structured UWB Band-Notched Antennas”***, 2017-2018, ECE Dept., NIT Silchar, Assam, India.
4. Anisha Borah, ***“EBG-Structures in Tunable UWB Antennas”***, 2017-2018, ECE Dept., NIT Silchar, Assam, India.
5. Mukul Amrohi, ***“Antenna Design for Small Satellites”***, 2017-2018, ECE Dept., NIT Silchar, Assam, India.
6. Guguloth Kotesh, ***“EBG-Loaded DRA for UWB Applications”***, 2017-2018, ECE Dept., NIT Silchar, Assam, India.

**Academic Year 2016-2017**

1. Mandovi Borthakur, ***“Design and Development of Dielectric Resonator Antenna for Different Wireless Communication Systems”***, 2016-2017, Dept. of ECE, NIT Silchar, Assam.
2. Deepak Saurabh, ***“Study of Dielectric resonator Antenna for millimeter Wave Applications”***, 2016-2017, Dept. of ECE, NIT Silchar, Assam.
3. Pallab Pran Dutta, ***“Analysis of Printed Antenna for UHF Based Applications”***, 2016-2017, Dept. of ECE, NIT Silchar, Assam.
4. Shaban Barbhuiya, ***“RF Sensors for Cancer Endoscopy”***, 2016-2017 Dept. of ECE, NIT Silchar, Assam.**(Guide)**
5. Deepak Kumar, ***“Design and Development of Sensors for Cancer Detection”***, 2016-2017, Dept. of ECE, NIT Silchar, Assam.
6. Kundan Kumar, ***“Design of Compact Triple Band Notch Antennas for Ultra-wideband Applications”***, 2016-2017, Dept. of ECE, NIT Silchar, Assam.

**Academic Year 2015-2016**

1. Anshujit Sharma, Salam Thoithoi, Kodur Krishna Kumar and Kanchan Kumar, ***“Implementation of Artificial Neural Network on Embedded System and Android Smartphone for Microstrip Antennas”***, 2015-2016, Dept. of ECE, NIT Silchar, Assam.

**Academic Year 2009-2010**

1. Vipul Sharma and Vivek Tripathi, ***“Remote Controlled Digital Clock”***, 2009-2010, Shobhit University Meerut, U.P., India.

**Academic Year 2008-2009**

1. Lalit Soni and Shariq Khan, ***“Hardware Circuit for SAP-1 Computer”***, 2008-2009, Shobhit University Meerut, U.P., India.

**Academic Year 2007-2008**

1. Krishna Murari and Vijay Kumar, ***“Remote Controlled Car Lock”***, 2007-2008, Shobhit University Meerut, U.P., India.

**Academic Year 2006-2007**

1. Kapil Kumar and Vishal Tomar, ***“Microcontroller Based Home Security System”***, 2006-07 Shobhit University Meerut, U.P., India.

**Academic Year 2005-2006**

1. Amit Kumar and Sanjay Negi, ***“Electronic Voting Machine”*** completed in Academic year 2005-06 at Shobhit University Meerut, U.P., India.

**Academic Year 2004-2005**

1. Sidhartha and Prachi Agarwal, ***“Tele-Remote Controlled Home Security System”*** completed in Academic year 2004-05 at Shobhit University Meerut, U.P., India.