

## Curriculum Vitae

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|------------------------------------|---|
| 1. Name                            | ABDUL QUAIYUM ANSARI  |
| 2. Designation:                    | Professor   |
| 3. Office Address:                 | Department of Electrical Engineering  |
| Telephone:                         | 26981717 Ext. 2346  |
| 4. Residential Address:            | 63-T, Sector-8, DDA-SFS Flats<br>Jasola Vihar, New Delhi-110025   |
| Mobile:                            | +91-9873824597  |
| Email:                             | <a href="mailto:aqansari@jmi.ac.in">aqansari@jmi.ac.in</a> (Primary)<br><a href="mailto:ansari.aq@ieee.org">ansari.aq@ieee.org</a> (Secondary)  |
| 5.                                 | Vidwan ID: <a href="#">302608</a><br>Orcid ID: <a href="#">0000-0003-0153-4381</a><br>Scopus Author ID: 24723556800<br>Researcher ID: AFS-0296-2022<br>Google ScholarID: <a href="#">vII0PRwAAAAJ</a> |
| 6. Date of Birth:                  | 08 August 1962  |
| 7. Date of Joining Service J.M.I.: | 08 October 1984   |
| 8. Field of Specialization:        | High Performance Power Semiconductor Devices, Data Communication and Computer Networks, Soft Computing, Cyber Security, EBG Structures and Patch Antenna.   |
| 9. Teaching Experience:            | Since October 1984  |
| 10. Research Experience:           | 35 Years  |



### 11. Employment Profile

Job Title	Employer	From	To
Professor (Permanent)	Department of Electrical Engineering Faculty of Engineering and Technology Jamia Millia Islamia, New Delhi.	Aug.18, 2000	Cont...
	<b>Head of the Department: 3 years</b>	15 May 2008	14 May 2011
Professor (On deputation from JMI)	Department of Computer Science Jamia Hamdard (Hamdard University) New Delhi – 110 062	31 Mar. 2001	03 Aug. 2004
	<b>Head of the Department: ≈ 4 ½ years</b>	31 Mar. 2001	03 Aug. 2004
	<b>Dean, Faculty of Management Studies and Information Technology: ≈ 2 years</b>	01 Nov. 2002	03 Aug. 2004
Assoc. Professor (On EOL from JMI)	College of Computer Science King Khalid University, Kingdom of Saudi Arabia	06 Dec. 2005	21 June 2007

Reader	Department of Electrical Engineering Jamia Millia Islamia, New Delhi.	Aug.1992	Aug.2000
Sr. Lecturer	----- do -----	Oct.1990	Aug.1992
Lecturer	----- do -----	Nov.1987	Oct.1990
Lecturer	University Polytechnic, JMI, New Delhi.	Oct.1984	Nov.1987

### 12. Academic Qualifications (From Highest Degree to High School)

Examination	Board / University	Year	Division/ Grade	Subjects
Ph. D.	JMI, New Delhi	2000	-	Hierarchical Fuzzy Control for Industrial Automation
M. Tech.	IIT Delhi	1991	First	Integrated Electronics and Circuits
B. Sc. Engg.	AMU Aligarh	1984	First (Hons.)	Electrical Engineering (Low Current)
P. U. C.	AMU Aligarh	1979	First	Physics, Chemistry, Mathematics, English, Hindi, Urdu
High School	Bihar School Examination Board, Patna	1978	First	Physics, Chemistry, Mathematics, English, Hindi, Sanskrit, Social Studies

### 13. Academic/Administrative Responsibilities

S. No.	Post	Institution/ University	Duration	
			From	To
1.	<b>Head of the Department</b>	Department of Computer Science, Jamia Hamdard, New Delhi.	31 Mar. 2001	03 Aug. 2004
		Department of Electrical Engineering, JMI, New Delhi.	15 May 2008	14 May 2011
2.	<b>Chairman Board of Studies</b>	Department of Computer Science, Jamia Hamdard, New Delhi.	31 Mar. 2001	03 Aug. 2004
		Dept. of Electrical Engineering, Jamia Millia Islamia, New Delhi.	15 May 2008	14 May 2011
3.	<b>Member of the Board of Studies</b>	Department of Computer Science Jamia Millia Islamia, New Delhi	11 Aug. 2022	Cont...
		Dept. of Electrical and Electronics Engg, Manav Rachna International Institute of Research and Studies, Faridabad.	11 April 2022	March 2024

		Member of the School Board, School of Technology, MANUU, Hyderabad.	19 Aug. 2020	Cont...
		Dept. of Electronics and Comm. Engg., JMI, New Delhi	April 2018	March 2021
		JSS Academy of Engineering and Technology, NOIDA	July 2018	Cont...
		Department of Computer Science, AMU Aligarh.	19 Sep. 2010	18 Sep. 2014
		Dept. of Electrical Engineering, AMU	18 April 2009	17 April 2011
		Department of EEE, North Cap University, Gurugram	February 2009	Feb. 2015
		School of Engineering, Gautam Buddha Univ., Greater NOIDA	January 2009	Jan. 2015
		Vinayaka Missions University, Malaysia Campus, Kuala Lumpur	Jun 2009	June 2012
		Women's Polytechnic, A. M. U. Aligarh	30 April 2005	29 April 2007
		P.G. Dept. of Electronics and Instrumentation Technology, University of Kashmir, Srinagar	01 July 2003	30 June 2006
4.	<b>Dean of Faculty</b>	Faculty of Management Studies and Information Technology, Jamia Hamdard, NewDelhi	01 Nov. 2002	03 Aug. 2004
5.	<b>Member of the Academic Council</b>	Graphic Era (Deemed to be University), Dehradun.	24 Feb. 2022	Cont...
		Academic Advisory Council Member of the Mewat Engineering College, Nuh, Haryana.	16 March 2020	Cont...
		G. B. Pant Engg. College, Pauri Garhwal (Uttarakhand)	Jan 2017	Jan 2020
		Baba Ghulam Shah Badshah University, Rajouri, (J&K)	July 2016	July 2019
		Jamia Millia Islamia, New Delhi	15 May 2008	14 May 2011
		Jamia Hamdard, New Delhi	31 Mar 2001	3 Aug 2004
6.	<b>Member of the Executive</b>	Bhagwant University, Rajasthan	March 2008	March 2011
		Indian Society for Technical Education (ISTE), New Delhi	01 Jan. 2003	31 Dec. 2005

	<b>Council</b>	IEEE Delhi Section	Jan 2009	Cont...
7.	<b>Member of Professional Bodies</b>			
	Fellow	Institution of Engineers (India)	Aug. 2003	Cont...
	Fellow	Institution of Electronics and Telecommunication Engineers (IETE)	Aug. 1996	Cont...
	Fellow	National Telematics Forum, India.	Oct.1997	Cont..
	Sr. Member	IEEE, U.S.A.	Nov. 2000	Cont...
	Sr. Member	Computer Society of India (CSI)	Aug. 2002	Cont...
	Life Member	Indian Society for Technical Education	1988	Cont...
	Life Member	Indian Science Congress Association	1997	Cont...
8.	<b>Others (specify)</b>			
	Chairman	IEEE Delhi Section–Special Interest Group on Humanitarian Technology (SIGHT)	Jan. 2022	Cont...
	Chair	IEEE PES Humanitarian Technology Activities (New Initiatives)	Jan. 2025	Cont...
	Vice Chair	IEEE India Council _ Humanitarian Technology Committee	Jan 2025	Cont...
	Chairman	IEEE Delhi Section	Jan 2023	Dec. 2024
	Institute Coordinator	Prime Minister Research Fellowship (PMRF), Jamia Millia Islamia, New Delhi	14 Nov. 2019	Cont...
	Executive Vice Chairman	IEEE Delhi Section	Jan 2021	Cont...
	Vice Chairman	IEEE Delhi Section	Jan 2020	Dec. 2020
	Chairman	Students Activities Committee, IEEE Delhi Section	Jan. 2020	Dec. 2020
	Executive Vice Chairman	IEEE Delhi Section	Jan 2019	Dec. 2019
	Member, BOG	G. B. Pant Engineering College, Pauri Garhwal, Uttarakhand	2016	2019

Jury Member, National Awards Committee	For MSMEs, National Productivity Council, Ministry of Commerce and Industry, Govt. of India	2016	2018
Vice Chairman	IEEE Delhi Section	Jan. 2015	Dec. 2018
In-charge	Literary and Cultural Activities, Faculty of Engg. & Tech., JMI	Jan. 2012	Dec. 2014
Chairman	Computational Intelligence Society (CIS) Chapter, IEEE Delhi Section	Jan. 2011	Dec 2015
Member, Court	Jamia Millia Islamia, New Delhi	2010	2011
Member, BOG	Maharaja Surajmal Institute of Technology, New Delhi	2010	2018
Hony. Secretary	ISTE-JMI Chapter	2010	Cont...
Coordinator	B.E. Electrical (Part-time), JMI	Jan. 2008	Dec. 2008
Member	Planning and Monitoring Board, Periyar Maniammai University, Thanjavur, T.N.	17 Aug. 2007	16 Aug. 2014
Member, BOG	Apeejay Institute of Technology, Greater NOIDA	April 2005	April 2014
Hony. Executive Secretary	Indian Society for Technical Education (ISTE), New Delhi	April 2005	July 2005
Member, Board of Research	Bharati Vidyapeeth Deemed University, Pune	Jan. 2004	Dec. 2006
Member, Advisory Council	Institute of Management and Technology, Ghaziabad	Nov. 2003	Nov. 2011
Assistant Proctor	Jamia Millia Islamia, New Delhi	1994	1997
Program Officer, NSS	Jamia Millia Islamia, New Delhi	1994	1998
Founder Counselor	IEEE-JMI Students' Branch	Jan. 1990	Dec. 1996

#### 14. Awards/ Fellowships/ Editorship etc.

1. **Margdarshak** under the Margdarshan Initiative of AICTE, since 04 March 2022 to Dec. 2023.
2. **Distinguished Visiting Professor**, Vinayaka Mission's Research Foundation (Deemed to be University), Salem, Tamilnadu, since 18 Feb. 2022.
3. **Guest Editor** of the Special Issue on Recent Trends in Low-Power VLSI and Embedded System of the Journal "Recent Advances in Electrical & Electronic Engineering", Bentahm Science, Volume 14, Issue 4, 2021. DOI: 10.2174/235209651404210420093624.
4. **Dr. Zakir Hussain Award for Educational Services**, presented by Al-Hind Taleem-e-Jadeed Foundation, New Delhi, 24<sup>th</sup> Feb. 2018.
5. **Guest Co-Editor**, International Journal of VLSI Design and Communication Systems, Special issue on Emerging Trends in On-Chip Communications. Publisher: InderScience, Switzerland, Vol. 5, Nos. 1 and 2, 2013.
6. **Award for Eminent Educationist**, presented at the Indo–Global Education Summit 2013, New Delhi, The Indus Foundation, U.S.A. and India. 2013.
7. **Rajarambapu Patil National Award for Promising Engineering Teacher for Creative Work Done in Technical Education for the year 2011**, Indian Society for Technical Education, New Delhi.
8. **Outstanding Volunteer Award**, as Chairman of IEEE CIS Delhi Chapter, IEEE Delhi Section, 2011.
9. **Recognition by the Stanford University**: Responding to an open challenge floated by the Stanford University, California, USA, I along with two students of my department, succeeded in building an Internet Router using Virtual Network System (VNS). The work has been duly recognized by the international community and the name of Jamia Millia Islamia and Prof. A Q Ansari was listed on the **Website of the Stanford University** along with other fifteen top class universities of the world, who have successfully implemented the given task(s). The complete list of universities working on this assignment was then given on the Stanford website. <http://yuba.stanford.edu/vns/>. The matter was also reported as news item in the Education Times of the Times of India on 4<sup>th</sup> May 2009.
10. Received the Best Paper Presentation Award at the 88<sup>th</sup> **Indian Science Congress**, 2001, New Delhi.
11. Reviewer of Papers:
  - (i) AEÜ - Int. Journal of Electronics and Communication (Elsevier)
  - (ii) ACM Transaction on Internet Technology
  - (iii) CSI Transactions on ICT
  - (iv) Int. J. RF and Microwave Computer-Aided Engineering, (Wiley)
  - (v) IET Microwave, Antennas & Propagation
  - (vi) Int. J. of Circuit Theory & Applications (Wiley)
  - (vii) International Journal of Electronics, U.K.
  - (viii) Advances in Electrical and Electronic Engineering

#### 15. Details of Academic Work

**(i) Laboratory and Curriculum Development**

- a) Established the research facilities in the area of Soft Computing in the Department of Electrical Engineering with generous grants from AICTE and UGC, which is now being used extensively by the students and staff for their R&D work.
- b) Established two laboratories in the Department of Electrical Engineering, viz., the Communication Systems Lab and Data Communication Lab, with state of the art facilities for UG and PG students.
- c) Developed the **Course Curriculum** for the B. Tech. (E&C) for the University in the year 1990.
- d) Member, Course Revision Committee for the Department of Electrical Engineering in the year 1986-87.
- e) Prepared Laboratory Manuals for the Analog Electronics, Digital Electronics, and Communication System Laboratories of the Department of Electrical Engineering in the University.
- f) I have also been involved with the **Curriculum Development** of undergraduate and Postgraduate courses of engineering/ computer application of various institutes viz., Jamia Hamdard, New Delhi; BGSBU, Rajouri, J & K; PMU, Thanjavur, T.N.; Gautam Buddha University, Greater NOIDA; Vinayaka Missions University, Malaysia Branch Campus, Kuala Lumpur, Malaysia, etc.
- g) Member, **Curriculum Development Committee** at the King Khalid University, Saudi Arabia where I developed the curriculum for the new Department of Communication and Computer Networks Engineering.

**(ii) Courses taught at Postgraduate and Undergraduate levels**

**Undergraduate level:**

- a) Communication Systems
- b) Analog Electronics
- c) Digital Electronics
- d) Electronics Design
- e) Electromagnetic Fields Theory
- f) UHF and Microwave
- g) Data Communication and Computer Networks
- h) Numerical Analysis and Computer programming
- i) Power Electronics

**Postgraduate level:**

- a) Digital Communication
- b) Communication Protocols
- c) Data Security and Cryptography
- d) Artificial Intelligence and Soft Computing
- e) Mathematical Modeling and Computer Simulation

**(iii) Major Projects / Dissertations guided at Postgraduate level**

- D31. Study of mm-Wave Patch Antenna for Applications of Bio-Radar, Ms. Zia Firdaus, Jan. 2025.
- D30. A modified AlexNet Model for Breast Cancer Detection, Ms. Nihala A. Saleem, 31<sup>st</sup> May, 2024.
- D29. IoT-Based Battery management system for Electric Vehicles, Mohd Hafizur Rehman, March 2023.
- D28. Design and Simulation of Microstrip based IDC Humidity Sensor, Kamran Arif, Feb. 2023.
- D27. IoT-Based ECG System for Arrhythmia Detection Using Telemetry Monitoring, Mohd. Aqib, Dec. 2021.
- D26. Development of Contactless Dry ECG Electrodes for Long Term Monitoring, Mubasshir Javed Ansari, Dec. 2021.
- D25. A Simplified Direct Parameter Extraction and Validation Method for Gallium Nitride High Electron Mobility Transistor (HEMT), Peer Athar Rasool, June 2020.
- D24. An Accurate Small Signal Parameter Extraction Method for Gallium Nitride High Electron Mobility Transistors, Ambar Abdullah Koul, June 2020.
- D23. Extraction of Small Signal Parameters of AlGa<sub>N</sub>/Ga<sub>N</sub> High Electron Mobility Transistors (HEMT) Using ANN and GANN, Rubina Khan, June 2020.
- D22. An Improved Direct Digital Converter for Bridge Connected Resistive Sensor, Deeba Ashique, Sep. 2019
- D21. Design of Microstrip Patch Antenna with FR-4 Substrate Using CST Microwave Studio Suite, Rajendra Patel, Sep. 2019
- D20. An Advance, Fast and Precise Machine Learning Mased Modelling Techniques for AlGa<sub>N</sub>/Ga<sub>N</sub> HEMT, Saddam Hussain, July 2019.
- D19. Design and Analysis of Contactless Capacitive Electrocardiogram (ECG) System, Aftab Alam, Oct. 2018.
- D18. Direct Digital Converter for Impedance Sensors, Syed Sajid Rizvi, Sep. 2018.
- D17. Modeling and Analysis of AlGa<sub>N</sub>/Ga<sub>N</sub> High Electron Mobility Transistor (HEMT), Aditya Mishra, July 2017.
- D16. Design and Analysis of Metamaterials and its Application in Performance Enhancement of Microstrip Patch Antenna / Antenna Array, Wasim Akaram, July, 2017.
- D15. Analysis, Design and Modelling of Memristor Emulator and its Application in FM Detector Circuit, Zeba Mustaqueem, August 2016.
- D14. Leakage Power Reduction in SRAM Cell Using Circuit Level Approach in 65 nm Technology, Manisha Rajpurohit, August 2016.
- D13. Design of Low Power SRAM Cell with Improved Stability, Javed Akhtar Ansari, June 2015.
- D12. Performance Evaluation of Classifier Techniques to Discriminate Odor with an E-Nose, Ahmad Khusro, June 2015.
- D11. Improvement in the Dynamic Performance of a Direct Torque Controlled Induction Motor Drive Using Fuzzy Logic, Huma Fatima, June 2013.
- D10. Power Line Communication: Channel Characteristics and Modulation, Mohd. Saquib Faraz, October 2012.



- D9. Power Line Communication Channel Modelling for Motor Controlling as Industrial Application, Mayank Jain, September 2011.
- D8. Fuzzy Logic Based Modelling and Estimation of Global Solar Energy in India, Chanchal Kumar Yadav, September 2011.
- D7. Mitigation of Sub-Synchronous Resonance with the Help of Lag-Lead Compensator, by Bajrangi Maurya, July 2010.
- D6. Home Network PLC Signal Processing Based on Wavelet Packet Analysis, by Abrar Ahmad, July 2009.
- D5. Sub-Synchronous Resonance Mitigation with the Help of Lag-Compensator, by Mashhood Hasan, July 2009.
- D4. Design and Development of a Business Model for Manufacturing and Sales System, Abubakr Shahrah, King Khalid University, KSA, May 2007.
- D3. GIS for Oil Fields Distribution in Saudi Arabia, by Eman Mohammad Ganem, King Khalid University, KSA, May 2007.
- D2. Traffic Signal Design Using Fuzzy Logic, by Omar Saad Muhammad, King Khalid University, KSA, May 2007.
- D1. Three Phase Power Transformer Protection Using Wavelet Packet Transform (WPT), Md. Ibrar Noor, Sep. 2005.

#### 16. Details of Funded Research Projects

S. No.	Title of Project	Funding Agency	Duration		Status
			From	To	
1.	On Chip 3D Simulator for Network-on-Chip (NoC)	UGC - MRP Amount: 8.94 Lakhs	2011	2013	Principal Investigator
2.	Fuzzy Decision Support System for Metropolitan Traffic Control	AICTE- R & D Project Amount: 10.00 Lakhs	2002	2005	Principal Investigator
3.	Hierarchical Fuzzy Control System for Industrial Automation of INR 1.2 million.	AICTE-TAPTEC Project (Thrust Area Project in Technical Education) Amount: 12.00 lakhs	1996	1999	Completed (Co-PI)

#### 17. Consultancy Provided to Industries

S. No.	Company/Industry Name	Work/Assignment Title	Service Provided
1.	ONNYX Electronics Delhi-110092	“Survey, Design, Supply of Traffic Hardware, Installation, Commissioning & Operation of the Traffic Systems (In Stand Alone Mode)”	Free Consultancy Since 5 <sup>th</sup> May 2012 Cont...

18. PhD Guidance

S. No.	Name of the PhD Scholar	Title of PhD Thesis	Guide/ Co-Guide (if any)	Date of Award
24.	Nallagundla Suresh Babu (16PHDEE010)	Design of Microstrip Patch Antenna by Improving the Performance Parameters with EBG Structures	A. Q. Ansari / Prof. B. K. Kanaujia, JNU	31 May 2024
23.	Vipin Sharma (Visvesvaraya Scholar)	Reliability Analysis of Multistage Interconnection Network	A. Q. Ansari / Dr. Rajesh Mishra	06 Oct. 2023
22.	Arun Kumar (15PHDEE04)	Application and Analysis of Wavelets in Accelerating Electromagnetic Code Computation	A. Q. Ansari / Dr. Mohammad S. Hashmi, IIT Delhi	13 July 2022
21.	Gyanesh Singh (20147956)	Fault Diagnosis and Protection of Transmission System using Soft Computing Techniques	A. Q. Ansari / Md. Abul Kalam	28 Feb. 2022
20.	Ahmad Khusro (Visvesvaraya Scholar)	Gallium Nitride Device Modeling for Broadband Power Amplifier	A. Q. Ansari/ Dr. M. S. Hashmi, IIT Delhi	16 Nov. 2021
19.	Priyanka Sharma (20158984)	Automatic Onset Detection and prediction System for Seizures	A. Q. Ansari/ Manjari Tripathi, AIIMS, New Delhi	16 Aug. 2021
18.	Gagandeep Kaur (20148076)	Signal Processing Applications Using Current Mode Building Blocks	A. Q. Ansari/ Dr. M. S. Hashmi	16 Dec. 2020
17.	Amit Kumar (Visvesvaraya Scholar)	Investigation on Mutual Coupling Reduction among Microstrip Antennas	A. Q. Ansari / B.K. Kanaujia, JNU, New Delhi	22 July 2020
16.	Noorul Islam (12PHDEE17)	Optimization and Reliability Analysis of Intelligent Photovoltaic System	A. Q. Ansari	16 Sep. 2019
15.	Mohammad Rashid Ansari	A Scalable Architecture of 3-D Network-on-Chip	A. Q. Ansari / Dr. M. A. Khan	14 Feb. 2019
14.	Sapna Katiyar (20115289)	Ant Colony Optimization Based Adaptive Control System	A. Q. Ansari / Prof. Ibraheem	03 May 2017
13.	Mashhood Hasan (12PHDEE06)	Analysis, Design and Control of Unified Power Quality Conditioners	A. Q. Ansari / Prof. Bhim Singh, IIT Delhi	19 Oct. 2016
12.	Koyel Datta Gupta (20100883)	Hybrid Channel Allocation in Wireless Networks Using Soft Computing Concepts	A. Q. Ansari / Prof. P. C. Saxena JNU, New Delhi	15 Dec. 2015

11.	Jaspreet Kour	Multimedia Biometrics for Human Authentication	A. Q. Ansari / Prof. M Hanmandlu	16 Dec. 2014
10.	Swati Aggarwal	Neutrosophic Neural Network	Prof. A. Q. Ansari / Prof. Ranjit Biswas	07 May 2014
9.	Md. Abul Kalam (20087210)	Intelligent Techniques based Protection Schemes for Power Transmission System	Prof. Majid Jamil / Prof. A. Q. Ansari	22 Apr. 2014
8.	Mohammad Ayoub Khan	Area-Efficient Routing in 3-D Network-on-Chip (NoC)	Prof. A. Q. Ansari	28 Feb. 2013
7.	Bindu Garg	Investigation of Soft Computing Techniques for Time Series Analysis	Prof. M M S Beg / Prof. A. Q. Ansari	26 Dec. 2012
6.	Farrukh Saeed (20081180)	Soft Computing Applications in Pattern Recognition for Security Purpose	Prof. A. Q. Ansari / Prof. M Hanmandlu I. I. T. Delhi	27 Jan. 2012
5.	Neeraj Kumar Gupta (20081794)	Neuro-Fuzzy Integrated System with Online Learning Capability	Prof. A. Q. Ansari	23 Dec. 2011
4.	Shabana Urooj	Design and Development of Computer Based Biophysical Model for Diagnosing Pulmonary Edema	Prof. A. Q. Ansari / Dr. M. Khan	13 Oct. 2011
3.	Vijay Kumar Nangia (20080838)	On Trustworthy Multicasting in Computer Networks using Softcomputing Tools	Prof. A. Q. Ansari	15 June 2011
2.	Ashit Kumar Dutta (2003-902-001)	Some Applications of Intuitionistic Fuzzy Sets in Searching Problems	A. Q. Ansari / Dr. Ranjit Biswas,	21 Feb. 2006
1.	Rafiqul Zaman Khan (2002-901-PhD-01)	Empirical Study of Task Partitioning, Scheduling and Load Balancing Strategies for Distributed Image Computing System	Prof. A. Q. Ansari	20 Jan. 2005

### 19. Ph. Ds in Progress

S. No.	Candidate	Topic	Supervisor/ Co-Supervisor (if any)	Date of Registration
1.	Md. Shams Tabraiz Alam	Study and Analysis of Bio-friendly Materials for Therapeutic Application(s)	A. Q. Ansari / Dr. Shabana Urooj	17 Aug 2018

2.	Aftab Alam	Design and Development of Radar based Wireless Human Emotion Recognition System using Electrocardiogram (ECG) Waveform	A. Q. Ansari / Dr. Shabana Urooj (GBU, Greater Noida)	08 Feb. 2019
3.	Rakhshanda Jabeen	Design and Analysis of Brain Implantable Antennas for Biomedical Applications	A. Q. Ansari / Prof. B. K. Kanaujia, JNU	26 Aug. 2021
4.	Devraj Gautam	Investigation of Antenna System for Health Monitoring Applications	A. Q. Ansari / Prof. B. K. Kanaujia, JNU	27 Aug. 2021
<b>Research Scholar under QIP Scheme</b>				
5.	Md. Ejaz Aslam Lodhi	Design and Simulation of High Performance Power Semiconductor Devices	A Q Ansari / Prof. Sajad A. Loan, ECE, JMI.	22 Nov.2019

**20. Keynote Addresses and Invited Talks delivered:**

I have delivered over 100 keynote addresses and invited talks at prestigious conferences and renowned institutes, both in India and internationally.

**21. Workshops/ Conferences/ Seminars Organized (as Chairman/ Convener)**

S. No.	Title of Workshops/ Conferences/ Seminars	Date(s)	Funding Agency	Venue
1.	<b>General Chair</b> , DELCON 2024: An Official Flagship Conference of IEEE Delhi Section	21-23 Nov. 2024	BVICAM, New Delhi	BVICAM, New Delhi
2.	<b>General Chair</b> at Int. Conf. on Science Technology and Sustainability (ICSTS 2022)	5 – 6 Nov. 2022	JM Education Society, Mumbai.	MMAN Technical Campus, MH.
3.	<b>Track Chair</b> at the IEEE Delhi Section Conference (DELCON 2022)	11-13 Feb. 2022	IEEE Delhi Section	NSUT, New Delhi
4.	<b>Track Chair</b> at the IEEE 17th India Council International Conference (INDICON 2020)	11-13 Dec. 2020	IEEE India Council	NSUT, New Delhi
5.	<b>General Chair</b> International Conference on Innovative Applications of Computational Intelligence on Power, Energy and Controls with their impact on Humanity.	6-7 Nov. 2020	KIET, Ghaziabad.	KIET, Ghaziabad.

6.	International Workshop on “ <i>Computational Intelligence: Theories, Applications and Future Directions</i> ”	13-14 July, 2013	IEEE-CIS Delhi Chapter & IIT Delhi	Electrical Engg. Dept., IIT Delhi
7.	DLP Seminar on “ <i>Neurodynamic Optimization Approaches to Model Predictive Control</i> ”	18 March 2011	IEEE – CIS Delhi Chapter	Jamia Millia Islamia, New Delhi
8.	IEEE - Standards Association Workshop on “ <i>Cloud Computing</i> ”	07 Feb. 2011	IEEE – CIS Delhi Chapter	JMI, New Delhi
9.	Day-long Techno-social Sojourn – “ <i>TRIPSTER '09: Tripping the Barrier, Switching the Society</i> ”	23 Jan. 2009.	Jamia Millia Islamia	JMI, New Delhi
10.	Special Session on “ <i>Soft Computing</i> ” in the 10 <sup>th</sup> World Multi-conference on Systemics, Cybernetics and Informatics	16-19 July 2006	Int. Inst. of Informatics & Systemics, USA	Orlando, Florida, USA
11.	Special Session on “ <i>Artificial Intelligence and Soft Computing</i> ” in the 4 <sup>th</sup> International Conference on Information, Security, Communications and Computers	16-18 Dec. 2005	WSEAS	Puerto De La Cruz, Spain.
12.	One Day National Level Seminar, “ <i>Erudition- II : A platform for the Interaction of Academia and the Industry</i> ”	18 Feb., 2004	Jamia Hamdard	New Delhi
13.	Half Day “ <i>LINUX Workshop</i> ”	18Jan., 2003	Jamia Hamdard	New Delhi.
14.	One Day National Level Seminar “ <i>Erudition - I: A platform for the Interaction of Academia and the Industry</i> ”	17 Jan. 2003	Jamia Hamdard	New Delhi
15.	One Day Seminar on “ <i>.NET and C#</i> ”	14 August, 2002	Jamia Hamdard	New Delhi
16.	One Day Seminar on “ <i>International Dimensions of Cyber Law</i> ”	10 Oct., 2002,	Jamia Hamdard	New Delhi

## 22. Membership of Learned/Scientific Societies

S. No.	Type of Membership	Organization	Membership Number with date
1.	Life Member	Systems Society of India	LM 30277, 16 April 2010
2.	Member	IET, U.K. (Formerly IEE, U.K.)	83010854, 20 Dec. 2005
3.	Chartered Engineer (U.K.)	Engineering Council, U.K.	557922, 20 Dec. 2005
4.	Chartered Engineer (India)	Institution of Engineers (India)	F 108865-5, 10Nov 2004
5.	Fellow	Institution of Engineers (India)	F 108865-5, 18 Aug.2003

6.	Senior Member	Computer Society of India (CSI)	00083612, 26 Aug. 2002
7.	Fellow	IETE, India	F 53791, 20 Aug. 1996
8.	Chartered Engineer	IETE, India	CE/0010, 6 Aug. 2001
9.	Senior Member	IEEE	03064623, 18 Nov. 2000
10.	Fellow	National Telematics Forum, India.	F 95076, 03 Oct. 1997
11.	Life Member	Indian Science Congress Association (ISCA)	LM 7515, 1997
12.	Life Member	National Association of Computer Educators and Trainers, India	February 1996
13.	Life Member	Indian Society for Environmental Management	LM 951115, 01 Jan. 1995
14.	Life Member	Indian Society for Continuing Engineering Education	LM 123, 05 Aug. 1993
15.	Life Member	Indian Society for Technical Education (ISTE)	LM 2109, 1988

### 23. Academic Foreign Visits

S. No.	Country	Year of Visit	Programme
1.	Singapore	Dec. 2024	To attend the IEEE Region 10 (Asia Pacific) Section Chapter Symposium and Conference Leadership Program, 3-4 Dec'24.
2.	Malaysia	Sep. 2024	To attend the IEEE R10 (Asia Pacific) Humanitarian Technology Committee (HTC) Impact Congress, Kuala Lumpur, 29-30 Sep. 2024.
3.	Malaysia	March 2024	To participate in the IEEE Region 10 (Asia Pacific) AGM and to receive the Outstanding Large Section Award in the capacity of the Chairman IEEE Delhi Section, 2-3 March 2024.
4.	USA	Nov. 2023	To receive the IEEE Educational Activities Board (EAB) Professional Development Award in Washington DC in the capacity of the Chairman, IEEE Delhi Section.
5.	Univ. of Cambridge, UK	Jan 2020	To attend the LEAP Programme under the PMMMNMTT Scheme of MHRD, Govt. of India.
6.	Japan	2010	2 <sup>nd</sup> International Conference On Mechanical and Electronics Engineering, Kyoto, 1 – 3 August 2003. <b>Paper presented:</b> <i>Saving on Electricity Cost for Operating Large-size Data Centers through Implementation of Workflow Intuitive Formal Approach.</i>
7.	Kuala Lumpur	2009	BOS Meeting of the Vinayaka Missions University-Malaysia Campus, Kuala Lumpur, for the development of Academic Regulations and Curriculum for B. Tech. programmes. 28 - 30 September, 2009.
8.	Kingdom of Saudi Arabia (KSA)	06 Dec. 2005 – 21 Jun 2007	To work as Associate Professor at College of Computer Science King Khalid University.

9.	Greece	2004	8 <sup>th</sup> WSEAS International Conference on Computers, organized by the World Scientific and Engineering Academy and Society, Athens, Greece. 12-15 July, 2004. <b>Paper presented:</b> <i>A Generalized Fuzzy Temporal Database System with SQL Compatibility.</i>
10.	Saudi Arabia	2002	4 <sup>th</sup> Workshop on Information and Computer Science (WICS'2002), King Fahad University of Petroleum and Minerals (KFUPM). 17 – 18 March, 2002. Paper presented: <i>A Method of Search Using Fuzzy Logic</i>
11.	Italy	1999	One Month Summer School on “ <i>Neural Information Processing</i> ” at the International Centre for Theoretical Physics (ICTP), Trieste. 03 – 28 May, 1999.
12.	Italy	1998	One Month Winter School on “ <i>ICTP – United Nations University (UNU) – Microprocessor Laboratory Fifth Course on Basic VLSI Design Techniques</i> ”, International Centre for Theoretical Physics (ICTP). Trieste. 09 Nov. – 04 Dec., 1998.

## 24. Publications

### A. INTERNATIONAL REFEREED JOURNALS

1. M. Ejaz Aslam Lodhi; Abdul Quaiyum Ansari; Sajad A. Loan; Shabana Urooj; Nidal Nasser, “Investigation of Channel Mobility Enhancement Techniques Using Si/SiGe/GeSn Materials in Orthogonally Oriented Selective Buried Triple Gate Vertical Power MOSFET: Design and Performance Analysis,” *micromachines*-3558917, MDPI, April 2025.
2. N S Babu, S Kumar, A Q Ansari, B K Kanaujia, B Goyal, T Altameem, W El-Shafat, “High-Gain 16-Port mm-Wave MIMO Antenna with Spiral-Shaped Electromagnetic Band Gap for 5G Applications,” *International Journal of Communication Systems*, Vol. 38, e70074, 2025.  
[Available] <https://doi.org/10.1002/dac.70074> .
3. Lodhi M.E.A.; Loan S.A.; Ansari A.Q., “High Performance Poly-Si Vertical Trench Power MOSFET Using Double Charge Balance Technique: Design and Simulation,” *SSRG International Journal of Electrical and Electronics Engineering*, Vol.12, pp. 74-81, 2025.
4. Gyanesh Singh, AQ Ansari, Md Abul Kalam, “Accuracy Determination and Fault Identification of Multiterminal Transmission Line Using Soft Computing Techniques,” *Industrial Engineering Journal*, Vol. 53, Issue 10, pp. 79-88, 2024.
5. Babu, N.S., Ansari, A.Q., Gangwar, D. et al., “Low-Profile Dual-Polarized Antenna Loaded with Electromagnetic Band-Gap Structures,” *Wireless Personal Communication*, Vol. 135, pp. 2077–2102, 2024. <https://doi.org/10.1007/s11277-024-11095-2>

6. Babu, N.S., Ansari, A.Q., Kumar, S. et al., "Low-Profile Dual-Band Monopole Antenna with EBG Array for LTE, WLAN, Wi-MAX, and ISM Band Applications," *Sādhanā*, Vol. 49, No. 56, 2024. <https://doi.org/10.1007/s12046-023-02416-5>
7. Alam, A.; Urooj, S.; Ansari, A.Q., "Design and Development of a Non-Contact ECG-Based Human Emotion Recognition System Using SVM and RF Classifiers," *Diagnostics*, Vol. 13, No. 12, 2023. [Available] <https://doi.org/10.3390/diagnostics13122097>
8. NS Babu, AQ Ansari, BK Kanaujia, G Singh, S Kumar, "Compact two-port ultra-wideband multiple-input-multiple-output antenna with an electromagnetic band gap structure," *Materials Today: Proceedings*, 27 March 2023. [Available] <https://doi.org/10.1016/j.matpr.2023.03.372>
9. V Sharma, AQ Ansari, R Mishra, G Khanna, "On Design, Cost and Reliability Analysis of a Fault-Tolerant Multistage Interconnection Network Layout with Six Disjoint Paths," *International Journal of Parallel Programming (Springer)*, 5 Jan. 2023. [Available] <https://doi.org/10.21203/rs.3.rs-2427218/v1>.
10. Nallagundla Suresh Babu, Abdul Quaiyum Ansari, Deepak Gangwar, Binod Kumar Kanaujia, Sachin Kumar, Surendra Kumar Gupta, "Dual-band circularly-polarized EBG-based antenna for Wi-MAX/WLAN/ISM band applications," *Wireless Personal Communications (Springer)*, Jan. 2022 [Available] <https://doi.org/10.1007/s11277-022-09951-0>.
11. Nallagundla Suresh Babu, Abdul Quaiyum Ansari, Binod Kumar Kanaujia, Ghanshyam Singh, Sachin Kumar, "A two-port UWB MIMO antenna with an EBG structure for WLAN/ISM applications," *Materials Today: Proceedings*, Vol. 74, pp. 334-339, 8 Feb. 2023. [Available] <https://doi.org/10.1016/j.matpr.2022.08.316>.
12. Zeba Mustaqueem, Abdul Quaiyum Ansari, Md Waseem Akram, "Low Leakage and Robust Sub-threshold SRAM Cell Using Memristor," *INTL Journal of Electronics and Telecommunications*, , vol. 68, no. 4, pp. 667-676. Nov. 2022 [Available] DOI: 10.24425/ijet.2022.141287.
13. Zeba Mustaqueem, Abdul Quaiyum Ansari, Md Waseem Akram, "Low Power Non-Volatile 7T1M Subthreshold SRAM Cell," *Indian Journal of Pure & Applied Physics* Vol. 60, December 2022, pp. 1016-1024. [Available] DOI: 10.56042/ijpap.v60i12.67455.
14. Zeba Mustaqueem, Abdul Quaiyum Ansari, Md Waseem Akram, "Comparison of Memristor-Based SRAM Cells at Subthreshold Voltage," *Emerging Electronics and Automation: Select Proceedings of E2A 2021*, 10 Nov. 2022. [Available] [https://doi.org/10.1007/978-981-19-4300-3\\_38](https://doi.org/10.1007/978-981-19-4300-3_38)



15. Gagandeep Kaur, A. Q. Ansari, M. S. Hashmi, "Complexity Reduced Design Procedure of a Fractional Order All-Pass Filter," *Wireless Personal Communications* (Springer), 29 April 2022. [Available] <https://doi.org/10.1007/s11277-022-09672-4>.
16. Abdul Q. Ansari, Vipin Sharma, Rajesh Mishra, "A3-disjoint design of non-blocking shuffle exchange network by extra port alignment," *The Journal of Supercomputing* (Springer), Online published on 02 April 2022. [Available] <https://doi.org/10.1007/s11227-022-04450-2>.
17. Babu, N.S.; Ansari, A.Q.; Kumar, S.; Kanaujia, B.K.; Singh, G.; Goyal, B., "Oct-Port High Gain MIMO Antenna Backed with EBG for mm-Wave Applications," *Progress in Electromagnetics Research B*, Volume 103, pp. 139-157, 2023.
18. Abdul Quaiyum Ansari, Priyanka Sharma, Manjari Tripathi, "A patient-independent classification system for onset detection of seizures," *Biomedical Engineering/ Biomedizinische Technik*, Volume 66, Issue 3, Pages 267-274, De Gruyter, Aug. 2021.
19. Vipin Sharma, Abdul Q. Ansari, Rajesh Mishra. "A Novel Design Layout of Three Disjoint Paths Multistage Interconnection Network & its Reliability Analysis," *International Journal of Pervasive Computing and Communications*, Vol. 17, No. 4 (July 2021): 390-403.
20. Arun Kumar, Mohammad Shabi Hashmi, Abdul Quaiyum Ansari, Sultangali Arzykulov (2021), "Haar Wavelet Solution Analysis of Compound Pendulum-based Computational Electromagnetic Damping Oscillation Problem", *IETE Journal of Research*, pp. 4130-4138. DOI: [10.1080/03772063.2021.1941332](https://doi.org/10.1080/03772063.2021.1941332).
21. Selvakumar Rajendran, Arvind Chakrapani, Srihari Kannan, Abdul Quaiyum Ansari, "A Research Perspective on CMOS Current Mirror Circuits: Configurations and Techniques," *Recent Advances in Electrical & Electronic Engineering*, Special Issue on Recent Trends in Low-Power VLSI and Embedded System (Bentham Science Publishers), Vol. 14, Issue 4, pp. 377-397, January 2021. DOI:10.2174/2352096514666210127140831
22. A. Q. Ansari, M. A. Khan, "Editorial: Special Issue on Recent Trends in Low-Power VLSI and Embedded System," *Recent Advances in Electrical & Electronic Engineering*, (Bentham Science Publishers), Vol 14, Issue 4, pp. 375-376, January 2021.
23. L. Matekovits, Amit Kumar, Abdul Quaiyum Ansari, Binod Kumar Kanaujia, Jugul Kishor, "A Review on Different Techniques of Mutual Coupling Reduction Between Elements of Any MIMO Antenna. Part 2: Metamaterials and Many More", *Radio Science*, Vol. 56, Issue 3, 2021.
24. Amit Kumar, Abdul Quaiyum Ansari, Binod Kumar Kanaujia, Jugul Kishor, Ladislau Matekovits, "A review on different techniques of mutual coupling reduction between elements of any MIMO antenna. Part 1: DGSs and Parasitic Structures", *Radio Science*, Vol. 56, Issue 3, 2021.

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27. A. Q. Ansari, P. Sharma, M Trpathi, "Automatic Seizure Detection using Neutrosophic Classifier," *Physical and Engineering Sciences in Medicine (Springer)*, 21 July 2020. DOI: 10.1007/s13246-020-00901-3
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29. G. Singh, A. Q. Ansari, Abul Kalam, "Comparative Analysis of Fault Diagnosis in Transmission Line using Soft Computing Techniques," *International Journal of Advances in Engineering & Technology*, Vol. 13, Issue. 3, pp. 94-106, June 2020.
30. Vipin Sharma, Abdul Quaiyum Ansari, Rajesh Mishra, Amit Kumar, Ravi Gupta, "Reliability Analysis of a Newly Proposed two Disjoint Path Multistage Interconnection Networks," *Test Engineering and Management*. (Jan-Feb 2020). Vol. 82. 15757-15765.
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35. Khusro A., Hashmi M. S., Ansari A. Q., “Enabling the Development of Accurate Intrinsic Parameter Extraction Model for GaN HEMT Using Support Vector Regression (SVR),” *IET Microwave, Antennas & Propagation*, Vol. 13, Issue 9, pp. 1457 – 1466, May 2019. DOI: [10.1049/iet-map.2018.6039](https://doi.org/10.1049/iet-map.2018.6039)
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