

Curriculum Vitae

Dr. Majid Jamil (09/04/1967)
Professor and Former Head,
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Dr. Majid Jamil is a professor of electrical engineering at the Department of Electrical Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, since January 2010. **He was the Head of the Department of Electrical Engineering from 2014 to 2017.** He joined the Department as a lecturer in 1992. **Dr. Jamil has also served as an Assistant Professor at BITS-Pilani, Dubai Campus, U.A.E from 2003 to 2006.**

Prof. Jamil has teaching, research, and administrative experience of over 30 years. Prof. Majid Jamil is a recipient of MHRD Fellowship for Leadership for Academicians Program (LeAP) in Higher Education funded by the Govt. of India. Prof. Jamil has extensive administrative experience and has served in various positions at Jamia Millia Islamia (JMI) and outside the university. Dr. Jamil has served as a member of the University Court, Executive Council (EC), Academic Council (AC), Chairman BOS), and many other committees at the university. He is a member of the Board of Governors, member academic council, and Board of Experts at UPSC, staff selection board of various states and a BOS member in many universities.

Prof. Majid Jamil has published more than 180 research papers in SCI, SCOPUS, and other refereed journals and conferences. **21 PhDs and 90 M.Tech. minor projects & dissertation thesis** have been awarded under the supervision of Dr. Jamil. He has also written several books, including the text book **“Grid Integration of Solar Photovoltaic Systems, CRC Press and Taylor.** **He has been** involved in writing technical books in regional languages for a project by AICTE, the Government of India, since 2021.

Prof. Jamil is a Fellow of the Institute of Engineers, a Fellow of IETE, a Senior Member of IEEE, USA, and a member of various technical societies.

Prof. Majid Jamil is the recipient of the **Teacher Excellence Award-2021** for his outstanding contribution in the field of education presented by Shikshak Kalyan Foundation on the occasion of the Birth Anniversary of Dr. Sarvpalli Radhakrishnan, **Academic excellence in teaching faculty, national category-2022** by the Institute of Engineers, **National Distinguished Researcher Award 2021** from the International Institute of Organized Research (I2OR), the **Outstanding Scientist Award-2021** from

VDGOOD Technology Factory in Trivandrum, India, AMPS's **5th National Award for Excellence in Education 2021** in recognition of outstanding services in the field of education and invaluable contributions to society at large. Prof. Jamil received **“RULA RESEARCH RATNA AWARDS 2019”**, for “Excellent work in Power Systems and Energy” awarded by, “RULA Awards” Powered by, “World Research Council” & “United Medical Council”.

Dr. Jamil **is an International Co-Principal Investigator** in the sponsored research funded by **Ministry of Education, Kingdom of Saudi Arabia of SAR 606744.00** since 2020. The project is to be executed at the Department of Electrical Engineering, College of Engineering, Qassim University, Buraydah, Saudi Arabia. He had acted as a technical consultant for a project on Electrical Protection, Automation and Control System of dynamic façade for the Indian Pavilion at world expo 2020 Dubai, UAE.

Prof. Jamil organized a brainstorming session on the **New Education Policy 2015** at JMI on June 13, 2019. He also completed NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by MMTC, Jamia Millia Islamia, New Delhi from 18-28 March 2024.

During his headship, Prof. Jamil motivated colleagues and students to improve the research atmosphere in the Department. A good number of academic activities were organized during this period. **He established a QIP research Centre at the Department in JMI.** The department received a grant of more than Rs. 30 million from different government agencies. Received grant under the Visvesvaraya Ph.D. Scholarships scheme of the Department of Electronics & IT for full-time Ph.D. Scholars in 2015. The Department organized a very successful IEEE INDICON International Conference in December 2015, during which around 800 papers were presented and published. One national conference, three GIAN Programmes, two curriculum revision workshops, one Faculty Development Programme, and several talks from alumni and memorial lectures have also been organized during his tenure of headship 2014-17.

Dr Jamil has conducted extensive research in the areas of power protection, solar PV systems, Petri nets, fuzzy logic, IEC 61850, and digital substations. He has successfully completed three research projects as Principal Investigators and coordinated the UGC sponsored SAP project. Dr. Jamil has established the Power System Research Lab, Smart Energy Systems Automation Laboratory, Switchgear & Protection lab, Circuit Theory lab, and Electrical Machines Lab at the Department of Electrical Engineering, JMI.

Prof. Majid Jamil also served as President of the Jamia Engineering Alumni Association (JEAA) from 1992 to 2002. He has been elected Secretary (2018-2020) and President (2020-2022) of the Jamia Teachers Association and organized a number of academic, social, and cultural activities during his tenure, including a grand multidisciplinary **international conference** on the occasion of Centenary Celebrations of the university.

Contributions as Head of the Department (2014-2017)

- Established a prestigious AICTE-sponsored Research Program, Quality Improvement Programme (QIP) (at the Department of Electrical Engineering, JMI, in 2015. At present, six Ph.D. students are registered in the scheme.
- Introduced Visvesvaraya, Ph.D. Scholarships scheme of the Department of Electronics & IT, Govt. of India, for full-time and part-time Ph.D. Scholars in 2016.
- Received grant of more than Rs. 30 million from different government agencies, including the FIST program of DST, Govt. of India
- During his tenure as head, he spearheaded significant infrastructure upgrades, efficiently utilizing newly acquired space to add faculty rooms, state-of-the-art laboratories, a committee room, and a dedicated research room, thereby enhancing the department's overall capacity and functionality.
- Organized successfully IEEE INDICON International Conference in December 2015. 800 papers were presented and published in the conference and on IEEE explorer. 100+SCOPUS indexed paper are published from the Department. Faculty of Engineering at JMI achieved the best national rank in 2018.
- Organized one National Conference in 2015. 300 papers were published in the proceeding of the conference.
- Organized three GIAN Programmes during 2014-2017.
- Organized two curriculum revision workshops and one Faculty Development Programme in 2016-17. Choice-based credit system (CBCS) has introduced in the curriculum.
- Introduced an Alumni chapter and organized a weekly Alumni lecture series. Alumni from various industries delivered 29 lectures during a two-year period.
- Special internship programme during summer vacations for students was conducted successfully for three years.
- Presented Department profile during NACC visit in 2014.
- Special attention was given to the placement of students. A large number of students being placed in reputed core companies during the three-year tenure.
- A research atmosphere was created in the department. Regular monitoring of research scholars through biometrics was established.
- GATE Coaching for B. Tech. and M. Tech. students was started in the department.
- A special training program was conducted for non-teaching and lab staff of the Department during May 7-15, 2015, in collaboration with IIT Delhi.
- Resources were generated to provide scholarships to meritorious and needy students. More than 80 students benefited during a three-year period.
- A number of new experiments were introduced in different laboratories.

Academic Qualification

S. No	Degree	Specialization	Institute	Year
1	Ph.D. (Electrical Engineering)	Intelligent Protection of Transmission Lines using Fuzzy Logic	JMI, Delhi	2001.
2	M. Sc. Engineering	Power Systems & Drives	A M U, Aligarh	1992
3	B. Sc. Engineering	Electrical Engineering	JMI Delhi	1989

Academic Experience

S. No.	Post held	Institution/University	Duration		Experience (In Years and Months)
			From (Date)	To (Date)	
1	Professor	Department of Electrical Engineering, JMI	January 2010	Till date	15+ years as Professor and over 30 years of teaching , research, and administrative experience
2	Associate Professor/Reader	Department of Electrical Engineering, JMI	2002	2009	8 yrs
3	Assistant Professor	BITS Pilani, Dubai Campus, UAE	2003	2006	3 Yrs
4	Lecturer	Dept. of Electrical Engineering, JMI	1992	2002	9 Yrs

Administrative Responsibilities

S No	Post	Institution/University	Duration		Experience
			From (Date)	To (Date)	
1	Head of the Department	Department of Electrical Engineering, JMI	May 2014	May 2017	3 Years
2	Chairman, Board of Studies, etc.	Department of Electrical Engg, JMI	May 2014	May 2017	3 Years
3	Member, Board of Studies	Department of Electrical Engg, JMI	1995	till date	29 Years

4	Member, Board of Studies	BITS Pilani-Dubai	2003	2006	3 Years
5	External Governor's nominated a member of the academic council	Shri Mata Vaishno Devi University, Jammu	13-12-2023 to	12-12-2025	2 years.
6	University Coordinator, QIP	JMI, New Delhi,	2015	till date	8 years.
7	External, BoS, member	Department of Electrical Engineering, DTU	2023	2025	
8	Member, Board of Studies	BITS Pilani-Dubai Campus	2003	2006	3 Years
9	BOS, External Member, Department of Electrical Engineeringg	YMCA, Faridabad	2019,	Till date	2 years.
		AMU, Aligarh	2015	2018,	3 Years
		NIT, Srinagar	2013	2016	3 Years
		BGSh, University, Rajhori, J&K	2012	2014	2 years.
		DTU, Delhi	2014	2017	3 Years
		Department of Economics, JMI	2015	2018,	3 Years
10	Member University Court	JMI, New Delhi,	2016	2017	One Year
11	Member, Executive Council	Jamia Millia Islamia	2018,	2019,	9 Months
12	Member, Academic Council	Jamia Millia Islamia	2014 2022	2017 till date	5 years.
13.	Member, Faculty Committee	JMI, New Delhi,	2010	till date	13 years
14.	University Coordinator, QIP	JMI, New Delhi,	2015	till date	8 years.
15.	University Training & Placement officer	JMI, New Delhi,	2011	2013	2 years.
16.	Chairman, Counting of Past Service Committee	JMI, New Delhi,	2014	016	2 years.
17.	Senior Warden, Boys' Hostel	JMI, New Delhi,	1993	2001	8 years.
18.	UGC Nominee, Board of Governors,	GND Engg College, Ludhiana, Punjab,	2014	2019	5 years.
19.	UGC Nominee, Board of Governors,	GND Engg College, Hyderabad	2019	2024	5 years.
20.	Expert Selection Committees,	AMU, MANUU, MITS, Gwalior, IIT Delhi, Staff Selection Board, Pant University, MEC, etc., 2012-present.	2012	Till date	
21.	External Member of AAC,	MEC, Nuh, Haryana,	2017	Till date	

22.	Member, Interview Board,	UPSC, New Delhi	Since 2014.		
23.	Superintendent Examiner,	Entrance Tests, JMI,	2006	2018,	12 years.
24	Coordinator, SAP,	Department of Elect. Engg., JMI,	2016	2018,	2
25	Member of the Committee for better resource utilization.	JMI, New Delhi,	1998	1999	1Years
26	Member, Central Purchase Committee,	Jamia Millia Islamia, New Delhi,	2014	2016	2 years.
27	Member, Establishment Committee,	Jamia Millia Islamia, New Delhi,	2018,	2020,	2 years.
28	Member, House Allotment Committee at	Jamia Millia Islamia, New Delhi from	2018,	2020,	2 years at
29	Incharge, Labs	BITS-Pilani, Dubai Campus,	2004	2006	2 years at

Awards

S. No	Name of ward	Awarding Organization	Year
1	MHRD Fellowship for Leadership for Academicians Program (LeAP) in Higher Education from	MHRD, Govt. of India.	2019,
2	EI-NMLC-FCRT Excellence Award-2022	Institute of Engineers, India	2022
3	Teacher Excellence Award-2021 for outstanding contribution in the field of education from	Shikshak Kalyan Foundation on the occasion of Birth Anniversary of Dr. Sarvpalli Radhakrishnan	2021
4	National Distinguished Researcher Award 2021.	International Institute of Organized Research (I2OR	2021
5	Outstanding Scientist Award-2021 from	VDGOOD Technology Factory, Trivandrum, India. The AMPS'S 5 th National	2021
6	AMPS's 5 th National Award for Excellence is in recognition of outstanding services in the field of education to society at large.	Association of Muslim Professionals	2021 & 2024
7	RULA RESEARCH RATNA AWARDS 2019", for excellent work in Power Systems and Energy"	World Research Council and United Medical Council	2019,
8	Best Paper award in an international conference	WCECS 2009, University of California, Berkeley, San Francisco, USA.	2009
9	Best Paper award in an international conference	IEEE REEDCON-2023, JMI.	2023
10	Best Paper award in an international conference	IEEE INDICON-2015, JMI.	2015

11	Best Paper award in a national conference	ETEEE, 2015, JMI.	2015
12	Best Paper award in an international conference	JTACON2020	2020,

M. Tech. Minor Projects & Dissertation Supervision: 90

Ph.D. Supervision: 21

S. No.	Name of PhD Scholar	Title	Status
1	Shahzad Ali Rana	Mitigation Techniques for Power Quality Issues of SPV Grid Interfaced System	Awarded 2023
2	Mohini Yadav	Development of Control Algorithms and Hardware Implementation of Energy Management and Demand Response Applications	Awarded 2023
3	Abdul Azeem	Real Time Analysis of IEC-61850 Based Digital Substation Using Artificial Intelligence	Awarded 2023
4	Arjun Baliyan	Intelligent Energy Management for Smart Building with Renewable Energy Sources	Awarded 2022
5	Tanushree Bhattacharyajee	Controlling a Microgrid and Real Time Implementation of a Digital Substation.	Awarded 2022
S. No.	Name of PhD Scholar	Title	Status
6	Shamshad Ali	Impacts of Different Levels of PV Penetration on Grid and Power Quality Analysis.	Awarded 2021
7	Mohammad Zeeshan	Intelligent Control of Microgrid	Awarded 2021
8	Anirudh Dubey	Analysis of Photovoltaic System Integration into Distribution Grid	Awarded 2020
9	Iram Akhtar	Integration of Renewable Energy Sources in Microgrid with Power Quality Improvement features,	Awarded 2020
10	Md. Ehteasham	Control Strategies for PV System Integration In Distribution System.	Awarded 2019
11	Ravi Gupta	Control of PMSG based Wind Energy Conversion System	Not completed
12	Ahmad Shariq Aneees	Integration of Renewable Energy Sources and Grid Management.	Awarded 2016
13.	Amit Sharma	Electrical Distribution System Restoration Using Intelligent Techniques.	Awarded 2016
14.	Rajveer Singh	Fault Identification in Power Systems using soft computing techniques.	Awarded 2015

15.	Sanjeev Kumar Sharma	Fault Detection and Identification of Three Phase Transmission Systems Using Intelligent Techniques.	Awarded 2015
16.	Sheeraz Kirmani	Techno-Economic Feasibility Analysis of Solar Energy Based Distributed Generation	Awarded 2014
17.	Md. Abul Kalam	Intelligent Technique Based Protection Schemes	Awarded 2013
18.	Khwaja Mohd. Rafi	Analysis, Modelling and Development of Integrated Renewable Energy System.	Awarded 2013
19.	Rashmi Jain	Electric Power Management Using FACTS Controllers.	Awarded 2013
20.	Mohammad Rizwan and	Intelligent Models of Solar Irradiation for Large Scale Power Generation.	Awarded 2010
21.	Radha Krishnan.	Security Issues in IPv6.	Awarded 2009

Contributions to Journals and Books

Books Authored: 03, Books Edited: 06, Chapter 10

Activity	Details	Year
Books Authored/ Co-Authored	Energy Conservation and Audit, published by AICTE in 2024 as a part of AICTE Scheme on Technical Book Writings in regional languages	2024
	Energy Science & Engineering, published by AICTE in 2023 as a part of AICTE Scheme on Technical Book Writings in regional languages	2023
	Grid Integration of Solar Photovoltaic Systems, CRC Press, (Taylor and Francis Group), USA. ISBN: 13:978-1-4987-9832-7 (Hardback).	2017
Book Edited	Smart Energy Management Systems and Renewable Energy Resources, AIP Publishing, Authors https://doi.org/10.1063/9780735422827	2021
Editorships	Emerging Trends in Electrical and Electronics Engineering”, Excel India Publisher 2015; Vol. I and Vol. II. New Delhi, India, ISBN: 978-93-84869-25-0.	2016
Editorships	Souvenir, REEDCON-2023	2023
Editorships	Souvenir, JTACON-2020	2020,
Editorships	Souvenir, INDICON 2015	2015
Editorships	Emerging Trends in Electrical and Electronics Engineering”, Excel India Publisher 2015; Vol. I and Vol. II. N Delhi, India, ISBN: 978-93-84869-25-0.	2016
Book Reviewed	Basic Electrical Science, Published by AICTE in 2021 as a part of the AICTE Scheme on Technical Book Writings in regional languages.	2021
Book Chapters	A Study of Energy Management Techniques for Smart City Applications on Educational Campus, International Conference on Communication, Computing and Electronics Systems, Springer's Lecture Notes in Electrical Engineering, Springer, Singapore, Vol 637, pp 655-665(SCOPUS Indexed).	2021

	Design of Automatic Lighting control for the Built Environment”, Lecture Notes in Smart Cities—Opportunities and Challenges, ICSC, Springer, March 14-16, 2019, (Scopus) 2019, 482002_1_En (4), Vol	2019,
	Enabling Technologies for Smart Energy Management in a Residential Sector: A Review”, Lecture Notes in Civil Engineering, Smart Cities—Opportunities and Challenges & Springer Nature 2019, 978-981-15-2544-5, 482002_1_En (2), Vol.	2019,
	Effective Grid-Connected Solar home -based System for Smart Cities in India in lecture notes in Springer, March 14-16, 2019, ICSC in Jamia Millia Islamia, India.(Scopus)	2019,
	A Study of Energy Management Techniques for Smart City Applications on Educational Campus. International Conference on Communication, Computing, and Electronics Systems. Lecture Notes in Electrical Engineering, vol. 637. Springer, Singapore, 2020.	2020,
	Hajar Bagheri Tolabi, Advances in Electric Power Engineering, Laxmi Book Publication, Solapur-Book, 2015.	2015
	Intelligent Models of Solar Energy, pp. 83-111, ISBN--978-1-329-06197-2.	2014
Peer review for	Reviewed technical papers for various peer-reviewed journals and conferences, including IEEE INDICON, IEEE ICPIECES, IEEE IICPE, IEEE PICON, NCORM-2020, JTACON2020, REEDCON-2023.	2010-2020
Member of the International Advisory Board	Member, Advisory Board in International Conference titled Vision of Solar Energy in the Kingdom of Saudi Arabia, organized by College of Engineering, Qassim University, Saudi Arabia.	
	Member of the International Advisory Board in many IEEE International conferences, including IEEE-ICPIECES, IEEE-INDICON, IEEE-PICON, IEEE PICON.	
	Actively involved in International collaborative research with College of Engineering, Qassim University, KSA.	

R & D Projects

Sl. No.	Client /Organization's Name	Nature of Project	Duration of Project	Amount of Grant (Rupees)
1	Ministry of Education, Kingdom of Saudi Arabia. The project is executed at the Department of Electrical Engineering, College of Engineering, Qassim University, Buraydah, Saudi Arabia.	Research	2020 to 2023	SAR 606,744.00
2	DST-FIST Programme, Govt. of India.	Research	2016-2020	Rs. 2.03 crores
3	SAP-DRS-II, UGC, Govt. of India.	Research	2013-2018	Rs. 68 lacs
4	RPS, AICTE, Govt. of India.	Research	2014 -2016	Rs. 18.30 lacs
5	RPS, AICTE, Govt. of India.	Research	2007-2009	Rs. 8.24 lacs

6	AICTE, Govt. of India.	MODROB scheme	2007-2009	Rs 6.00 lacs
7	AICTE, Govt. of India 1995-1998.	MODROB scheme	1997-1999	Rs 5.0 Lacs

Invited Talks/ Expert Lectures Delivered

S. No	Title of the talk delivered	Conference / Seminar held on Organized	Date
1	Next Generation Applications in Green Energy Technologies	AICTE Sponsored ATAL FDP on Sustainable Energy and Society: Recent Advances & Future Prospects, Department of Electrical Engineering, Zakir Hussain College of Engineering & Technology, AMU, Aligarh	10 December 2024
2	Battery Management and Environment Impact	AICTE Sponsored FDP on Advancing Faculty Skills in Electric Vehicle Education Organized by Department of Electrical Engineering, Rattan Institute of Technology & Management, Sevli, Palwal	15 October 2024
3	Webinar: Issues and Challenges in Connecting Renewable Energy Sources to Grid	Jamia Millia Islamia Alumni Association Germany Chapter,	26 May 2024
4	Inaugural address, in the International Symposium on the Ethical and Social Dimensions of Emerging Technologies, AI and ML	Jamia Millia Islamia Alumni Association, JEAA, Delhi	26-27 April, 2024.
5	Teaching and Research Essentials,	FDP at Institute of Engineering, Chandigarh University	26 June 2023.
6	Scope of Energy Auditing & Energy Conservation	Department of Electrical Engineering, DTU, Delhi.	26 March 2022
7	Issues and Challenges in the Implementation of NEP-2020	Convention Centre, Jamia Hamdard, New Delhi	13 November 2021
8	Scope of Wind Power and its Environmental Impacts	FDP Webinar IGNOU, New Delhi,	2020
9	Research Challenges in Engineering	FDP Mewat Engineering College, Nuh,	2019,
10	Grid integration issues with DGS	FDP-2018, JSS, Noida,	2018,
11	Building Energy Management,	FDP-2017 YMCA, Faridabad,	2018
12	Issues and Challenges to Power Generation	MANIPAL Institute of Technology, Jaipur,	2017
13.	Solar Energy Application	Academic Staff College, JMI, New Delhi.	2016

14.	Grid Connected Solar Power Systems	FDP, Department of Electrical Engineering, DTU.	2015.
15.	Applications of Intelligent Techniques in Power Systems	FDP, Department of Electrical Engineering, DTU.	2014.
16.	Solar Energy and its application	FDP Dept. of Electrical Engineering at DTU in	2013.
17.	Future Prospects of renewable energy in India.	ITS College in Greater Noida.	2012
18.	Energy Conservation	Academic Staff College in JMI, New Delhi	
19.	Grid Connected Solar Power Systems	FDP, Deptt of Electrical Engineering, Jaipur,	2011
20	Intelligent Protection of Transmission Systems” during.	Summer School at MNIT, Jaipur,	2002
21	Petri Nets and its Application” at the	Summer School at MNIT, Jaipur,	2001.

Scholarly presentation in International Conferences

Sl. No.	Date	Title of conference or Institution	Title /Subject of Presentation (if made)
1	1-3 May 2023.	REEDCON-2023, IEEE Sponsored International Conference	Delivered Conference Secretary Address and Invited Talk, Chaired a session and Presented Paper
2	13 November 2021	11 th All India Educational Conference organized by All India Educational Movement.	Presented a paper on National Education Policy 2020- Opportunities & Challenges
3	13-14 July 2020	TEQIP-3, International Conference on Renewable Energy Power-2020,	Chaired a session in the conference AMU, Aligarh.
4	Feb 2020,	JTA Multidisciplinary International Conference (Organizing Chair), JMI, New Delhi	Delivered Inaugural Address and Invited Talk, Chaired a session and Presented Paper.
5	Dec 2015	Chaired a Session in IEEE-INDICON-2015, New Delhi	Delivered Inaugural Address and Invited Talk, Chaired a Session Presented Paper, winning the best paper award.
6	Dec 2018,	International Conference on Intelligent Computing Techniques for smart Energy Systems,	Delivered an Invited Talk and a session, Manipal, Jaipur
7	Nov 2019	National Conference on Advanced Functional Materials-2019	Chaired a Session at (NCAFM-2019) in New Delhi
8	March 2019	Smart Cities—Opportunities and Challenges, ICSC, Department of Civil Engineering, JMI, New Delhi	Session Chaired and presented a paper, won best paper award

9	2016	IEEE India International Conference at DTU, New Delhi	Chaired a Session
10	2014	Chaired a Session in IEEE India International Conference on Power Electronics (IICPE) at DTU.	Delivered an Invited Talk and Chaired a Session

Participation in conferences at international forums.

Sl. No.	Title of conference or Institution	Title /Subject of presentation	Role	Date
1	World Congress on Engineering and Computer Science WCECS 2009, University of California, Berkeley, San Francisco, USA.	Solving Distribution System Overload Contingency Using Fuzzy Multi-Objective Approach Considering Customer Load Pattern.	Chaired a Session. Presented Paper, winning the best paper award.	2009
2	11 th IEE International Symposium on High Voltage Engineering, Emperor College, London (UK).	An Improved Scheme Based on fuzzy logic for EHV Transmission Line Protection.	Presented Paper.	1999
Sl. No.	Title of conference or Institution	Title /Subject of presentation	Role	Date
3	International conference on Intelligent Systems held in Knowledge Village, Dubai, UAE.	Fuzzy Logic based application for EHV transmission line.	Chaired a Session. Presented Paper.	2005

Organization of the Events:

S. No.	Name of the Event	Grant Generated/ Received	Role	Duration
1	2-Day International Symposium on the Ethical and Social Dimensions of Emerging Technologies, AI and ML	Online	President, JEAA Organized by, JEAA	April 26-27, 2024.
2	IEEE sponsored International Conference, Recent advances in Electrical, Electronics and Digital Health Technology, REEDCON	20 Lacs.	Organizing Secretary.	1-3 May 2023 and
3	JTA Multidisciplinary International Conference, at JMI, N. Delhi	Rs. 11 Lacs.	Organizing Chair.	16-18 Feb 2020.
4	Organized a Brainstorming session on New Education Policy at JMI	Rs. 10000.	Organizing Secretary.	13 June 2019.
5	12 th IEEE International Conference- INDICON-2015"Energy, Environment, Electronics, Computer, Control, Communication (E ³ -C ³)", JMI, N. Delhi.	Rs. 50 Lacs.	Organizing Chair.	17-19 December 2015

6	National Conference “Emerging Trends in Electrical and Electronics Engineering” organized by Department of Electrical Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi -110025,	Rs. 6 Lacs	Chairman	6-7, February 2015.
7	Two weeks AICTE-sponsored Staff Development Programme.	Rs. 7.5 Lacs.	Coordinator	2011
8	GIAN Programme: “Role of Smart Building Energy Management Systems in the Development of Smart City,” Foreign Faculty, Prof. Saifur Rehman, Advanced Research Institute at Virginia Tech (U.S.A),	Rs. 5,44,000/-	Course Coordinator:	6-10 March 2018.
9	GIAN Programme: “Controls for Renewable Energy and Microgrids,” Foreign Faculty, Prof. Adil Nasiri, University of Wisconsin-Milwaukee, USA	Rs. 5,44,000/-	Course Coordinator:	29 May-04 June 2016
S. No.	Name of the Event	Grant Generated/Received	Role	Duration
10	National Seminar on New Education Policy, July 2019.		Secretary	2019,
11	“Alumni- Faculty Interaction” and		President	2015
12	JEAA Conclave, a Silver Jubilee Celebration of Faculty of Engineering & Technology.	Rs. 20 lacs	Convener	2010
13.	National Seminar on AIDS awareness sponsored by Ministry of Health, Govt. of India, organized by PEACE.		Coordinator	1996
14.	The seminar on Entrepreneurship awareness camp (EAC), sponsored by DST Govt. of India., JMI		Coordinator	1994
15	“STUDENTS ALUMNI” interact meet at Faculty of Engineering & Technology, New Delhi, and		President	1995

Consulting Experience

Sl. No	Client /Organisation	Nature of assignment	Year
1	Integral Screw Industries:	Electrical Protection, automation, and Control System of dynamic façade of the Indian Pavilion at World Expo 2020 in Dubai, UAE.	2020,
2	Jamia Millia Islamia	Installation of Roof Top Solar Power Plant	2017-2019
3	Mewat Engineering College:	Installation of Roof Top Solar Power Plant	2017-2018

Contribution in relevant areas in higher education

	Organization	Area of Specialization
Visiting professor. -	Worked as an Assistant Professor at BITS-Pilani-Dubai Campus, UAE	Electrical Engineering
Visiting Professor at	GNIT, Greater Noida	Electrical Engineering
Resource Person	Delivered around 40 expert talks and chaired sessions in conferences, including one in an international conference held at University of California, Berkeley,	Electrical Engineering
External Member of the Academic Advisory Committee (AAC),	MEC, Nuh, Haryana	Academic Advisory
External Expert in the committee of Curriculum Revision Workshop	Department of Elect. Engg. YMCA University of Science & Technology, Faridabad	Electrical Engineering
External Expert in the committee of Curriculum Revision Workshop	Department of Electrical Engineering, AMU, Aligarh	Electrical Engineering
External Expert in the committee of Curriculum Revision Workshop	Department of Electrical Engineering, NIT, Srinagar	Electrical Engineering
External Expert in the committee of Curriculum Revision Workshop	Department of Electrical Engineering, Baba Ghula Shah University in Rajhori, J&K.	Electrical Engineering
External Expert in the committee of pre-phd evaluation work	Department of Electrical Engineering, DTU, Delhi	Electrical Engineering

Important MOUs formulated for academic collaborations

Sl. No.	MoUs formulated	Name of agencies	Year of MoU (s)
1	International Co-Principal Investigator in sponsored research executed at the Department of Electrical Engineering, College of Engineering, Qassim University, Buraydah, Saudi Arabia	Ministry of Education, Kingdom of Saudi Arabia	2020,
2	To provide various equipment to the Institute for the purposes of demonstration during vocational training or teaching. Set up a Resource Person at the Department of Electrical Engineering in Tajpura's Digital Substation Lab in	Siemens Limited in Worli, Mumbai – 400030 & Dept of Elect Engg, JMI,	2018,
3	To Organize international conferences with	IEEE, India Council, JMI	2015

Involvement with formulation of the academic programme

S N.	Nomenclature of innovative Academic Programmes, formulated & Implemented	Date of approval by AC.	Year of Introduction
1	Engaged in the the AICTE scheme-based courses and course content for minor and honours degree UG as a member of the Curriculum Revision Committee	2023	2024,
2	Member of the committee constituted to propose and formulate the implementation of NEP 2020	2021	
3	NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by MMTTC, Jamia Millia Islamia, New Delhi	18th March 2024.	28th March 2024.
S N.	Nomenclature of innovative Academic Programmes, formulated & Implemented	Date of approval by AC.	Year of Introduction
4	Introduced prestigious AICTE-sponsored Quality Improvement Programme (QIP) for PhDs at the Department of Electrical Engineering in JMI. I headship.	2016	2017
5	Revised curriculum of UG and PG programmes and implemented the choice-based credit system (CBCS)	2016	
6	Conducted a workshop for the curriculum revision of the B.E. evening self-financing programme.	2015	2016
7	An international seminar on “Hindustan Aur Iss ki Saqfat Urdu Arabi Farsi Zabanon Ke Hawale se” in JTA Conference during 16-18 February 2020, sponsored by AC].	2020,	2020,
8	Member Islaahi Committee, Dist. Saharanpur, U.P.	2019,	2019,

Curriculum Development

S.No	Curriculum Developed	Activity
1	Introduced Choice Based Credit System in B. Tech. and M. Tech. Programmes.	Organized a workshop on curriculum revision for B. Tech (Electrical Engineering) and M. Tech (EPSM) & M. Tech. (CIS) programmes during 7-8 March 2017
2	Developed Course Curriculum	EEP-103-Control Strategies of Renewable Energy Systems (PhD Course work),
		EEM-111-Renewable and Energy Sustainable Systems (M. Tech.),
		EE-506 Electrical Power Generation (B. Tech.),
		EE-501 Switchgear and Protection (B. Tech.), and BEE-402-Power Station Practice (B.E.).
		EE-531 Switchgear and Protection Lab,
3	Lab Establishment	Smart Energy System Automation Lab
		Switch & Protection Lab,
		Electrical Machines Lab,

		Circuit Theory Lab,
4	PG Projects	guided at PG Level-70,
5	UG Projects	Guided at UG Level-80. Plus
6	Courses Taught	Circuit Theory
		Renewable and Energy Sustainable Systems,
		Switch gear and Protection, Utilization, Electrical Machines, Power Station Practice, Energy Studies, and Power System

Membership of Learned Societies:

S. No	Awarding Professional Organization	Status	Membership No.	Awarding year
1	Institute of Engineers	Fellow	F-1215597	2018,
2	IETE	Fellow	F-500429	2018,
3	IEEE, USA	Sr. Member	93525884	2015
4	IEEE Power Engineering Society	Member	93525884	2015
5	Indian Society for Technical Education (ISTE)	Life Member,	LM 15022	1996
6	Institute of Engineers, India,	Life Member,	M-1352762	1998
7	ICTP	Life Member,	ICICTP/99/315	1999
8	Systems Society of India, Delhi Chapter,	Life Member.	LM No 30278	2006

Social Responsibilities:

- President, Jamia Engineering Alumni Association.
- Secretary ISTE Chapter-1999-2001
- Elected President (2020-2022) Jamia Teachers Association (JTA).
- Elected Secretary (2018-2020) Jamia Teachers Association (JTA).
- Secretary (2015 till date), FAITH Social and Educational Welfare Society. A society working in the field of education to promote education of the children belonging to socially, economically and educationally backward families.
- President, Jamia Engineering Alumni Association (1992-2002).
- Secretary (1996-2002 and 2020 –2021), Jamia Residents Welfare Housing Society.

Publication

Refereed Research Journals: SCI-indexed scholarly achievements:

SCOPUS-indexed papers published: 190.

Citations/ h-index, i10-index--1978, 24, 42

Selected Journal Paper

1. Shahzad Ali Rana, Majid Jamil, Mumtaz Ahmad Khan, A robust adaptive inverse hyperbolic sine function (RA-IHSF)-based controlled solar PV grid integrated system., *Arabian Journal for Science and Engineering*, pp 14423-14437, 2023.
2. Kumar, M. Alaraj, M. Rizwan, I. Alsaidan, and M. Jamil, "Development of Novel Model for the Assessment of Dust Accumulation on Solar PV Modules," *IEEE Journal of Photovoltaics*, vol. 13, no. 1, pp. 150–157, Jan. 2023, doi: 10.1109/jphotov.2022.3220923.
3. T. Bhattacharjee, M. Jamil, M. A. Alotaibi, H. Malik, and M. E. Nassar, "Hardware Development and Interoperability Testing of a Multivendor-IEC-61850-Based Digital Substation," *Energies*, vol. 15, no. 5, p. 1785, Feb. 2022, doi: 10.3390/en15051785.
4. A. Baliyan, I. J. Mwakitalima, M. Jamil, and M. Rizwan, "Intelligent Energy Management System for a Smart Home Integrated with Renewable Energy Resources," *International Journal of Photoenergy*, vol. 2022, pp. 1–6, Feb. 2022, doi: 10.1155/2022/9607545.
5. M. Alaraj, A. Kumar, I. Alsaidan, M. Rizwan, and M. Jamil, "An Advanced and Robust Approach to Maximize Solar Photovoltaic Power Production," *Sustainability*, vol. 14, no. 12, p. 7398, Jun. 2022, doi: 10.3390/su14127398.
6. A. Azeem, H. Malik, and M. Jamil, "Real-time harmonics analysis of digital substation equipment based on IEC-61850 using hybrid intelligent approach," *Journal of Intelligent & Fuzzy Systems*, vol. 42, no. 2, pp. 741–754, Jan. 2022, doi: 10.3233/jifs-189745.
7. M. Zeeshan and M. Jamil, "A comparative analysis of game theory techniques for study of energy interactions in interconnected microgrids," *International Journal of Environment and Sustainable Development*, vol. 21, no. 1/2, p. 21, 2022, doi: 10.1504/ijesd.2022.10042790.
8. A. Baliyan, M. Jamil, and M. Rizwan, "Power Quality Improvement Using Harmonic Passive Filter in Distribution System," *Power Quality Improvement Using Harmonic Passive Filter in Distribution System / SpringerLink*, Jul. 28, 2021. https://link.springer.com/chapter/10.1007/978-981-16-1476-7_40 (accessed Jan. 21, 2023).
9. S. Ali, M. Jamil, and M. A. Khan, "Power Quality Analysis and Enhancement Using DSTATCOM for Three-Phase Variable Load," *Power Quality Analysis and Enhancement Using DSTATCOM for Three-Phase Variable Load / SpringerLink*, Jul. 28, 2021. https://link.springer.com/chapter/10.1007/978-981-16-1476-7_52 (accessed Jan. 21, 2023).
10. M. Alaraj, A. Kumar, I. Alsaidan, M. Rizwan, and M. Jamil, "Energy Production Forecasting From Solar Photovoltaic Plants Based on Meteorological Parameters for Qassim Region, Saudi Arabia," *IEEE Access*, vol. 9, pp. 83241–83251, 2021, doi: 10.1109/access.2021.3087345.
11. A. Baliyan, M. Jamil, M. Rizwan, I. Alsaidan, and M. Alaraj, "An Intelligent PI Controller-Based Hybrid Series Active Power Filter for Power Quality Improvement," *Mathematical Problems in Engineering*, vol. 2021, pp. 1–10, Feb. 2021, doi: 10.1155/2021/6565841.
12. A. Azeem, M. Jamil, S. Qamar, H. Malik, and R. A. Thokar, "Design of Hardware Setup Based on IEC 61850 Communication Protocol for Detection & Blocking of Harmonics in Power Transformer," *Energies*, vol. 14, no. 24, p. 8284, Dec. 2021, doi: 10.3390/en14248284.

13. M. Alaraj, A. Dube, I. Alsaidan, M. Rizwan, and M. Jamil, "Design and Development of a Proficient Converter for Solar Photovoltaic Based Sustainable Power Generating System," *Sustainability*, vol. 13, no. 4, p. 2045, Feb. 2021, doi: 10.3390/su13042045.
14. T. Bhattacharjee and M. Jamil, "Power quality improvement of grid integrated distributed energy resource inverter," *International Journal of Power and Energy Conversion*, vol. 12, no. 3, p. 204, 2021, doi: 10.1504/ijpec.2021.116576.
15. M. Jamil and S. Mittal, "Hourly load shifting approach for demand side management in smart grid using grasshopper optimisation algorithm," *IET Generation, Transmission & Distribution*, vol. 14, no. 5, pp. 808–815, Feb. 2020, doi: 10.1049/iet-gtd.2019.0566.
16. M. Ehtesham and M. Jamil, "Control techniques for enhancing performance of PV system under dynamic conditions," *International Journal of Energy Sector Management*, vol. 15, no. 1, pp. 119–138, Nov. 2020, doi: 10.1108/ijesm-02-2020-0017.
17. I. Akhtar, S. Kirmani, and M. Jamil, "Analysis and design of a sustainable microgrid primarily powered by renewable energy sources with dynamic performance improvement," *IET Renewable Power Generation*, vol. 13, no. 7, pp. 1024–1036, Feb. 2019, doi: 10.1049/iet-rpg.2018.5117.
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19. A. Dube, M. Rizwan, and M. Jamil, "New approach for maximizing generation and optimal utilization of available space for solar PV system," *Journal of Renewable and Sustainable Energy*, vol. 10, no. 6, p. 063703, Nov. 2018, doi: 10.1063/1.5007780.
20. S. Kirmani, M. Jamil, and I. Akhtar, "Economic feasibility of hybrid energy generation with reduced carbon emission," *IET Renewable Power Generation*, vol. 12, no. 8, pp. 934–942, May 2018, doi: 10.1049/iet-rpg.2017.0288.
21. M. Jamil and A. Sharma, "Reconfiguration of electrical distribution system using ACO methodology," *Journal of Intelligent & Fuzzy Systems*, vol. 35, no. 5, pp. 4901–4908, Nov. 2018, doi: 10.3233/jifs-169774.
22. M. Jamil and A. S. Anees, "Optimal sizing and location of SPV (solar photovoltaic) based MLDG (multiple location distributed generator) in distribution system for loss reduction, voltage profile improvement with economical benefits," *Energy*, vol. 103, pp. 231–239, May 2016, doi: 10.1016/j.energy.2016.02.095.
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32. Abdul Azeem, S. T. Bhattacharjee Majid Jamil, "Analysis and Testing of Multifunctional relay using IEC-61850 Protocol | International Journal of Advanced Science and Technology," *Analysis and Testing of Multifunctional relay using IEC-61850 Protocol | International Journal of Advanced Science and Technology*, Jun. 01, 2020, <http://sersc.org/journals/index.php/IJAST/article/view/26509>
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46. S. K. Sharma, "GA-GNN (Genetic Algorithm-Generalized Neural Network)-Based Fault Classification System for Three-Phase Transmission System," *Journal of The Institution of Engineers (India): Series B*, vol. 100, no. 5, pp. 435–445, May 2019, doi: 10.1007/s40031-019-00396-x.
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51. Shamshad Ali, Majid Jamil, M A Khan, "PV - Wind Grid Connected System for the Rural Electrification", *IJAST*, vol. 29, no. 7s, pp. 5854-5860, Jun. 2020.
52. A. B. M. J. M. Rizwan, "An Efficient and cost effective configuration of PV System in Smart Grid Environment", *IJAST*, vol. 29, no. 3, pp. 4263 - 4278, Feb. 2020.
53. Shahzad Ali Rana, Majid Jamil, Mumtaz Ahmad Khan, "Design of a Switching Circuit to Improve Output Power of SPV Modules during Partial Shading", *IJAST*, vol. 29, no. 05, pp. 1026 - 1034, Apr. 2020.
54. I. Akhtar, S. Kirmani, and M. Jamil, "State of the Ability in Research on Microgrid Hybrid Energy Systems," *Journal of Engineering Science and Technology Review*, Vol. 12, no. 5, Sep 2019.
55. T. Bhattacharjee, M. Jamil and A. Jana, "Designing a Controller Circuit for Three Phase Inverter in PV application," 2018 International Conference on Electrical, Electronics, Communication, Computer, and Optimization Techniques (ICEECCOT), Msyuru, India, 2018, pp. 882-886, doi: 10.1109/ICEECCOT43722.2018.9001638.
56. Kirmani, S., Jamil, M., Akhtar, I. (2018). Development of Effective Technique for Integration of Hybrid Energy System to Microgrid. In: Somani, A., Srivastava, S., Mundra, A., Rawat, S. (eds) *Proceedings of First International Conference on Smart System, Innovations and Computing. Smart Innovation, Systems and Technologies*, vol 79. Springer, Singapore. https://doi.org/10.1007/978-981-10-5828-8_6.
57. S. Kirmani, et al., "Effective low cost Grid-Connected Solar Photovoltaic System to Electrify the Small Scale industry/Commercial Building", *International Journal of Renewable Energy Research*, Vol. 7, No 2, 2017.
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59. Jamil Majid, Rafi Khwaja M, Ahuja Neena, "Customized Biogas Based Distributed Power Generation," *International Journal for Renewable Energy*, Print ISSN 2231-3419.
60. M. Alaraj, A. Dube, I. Alsaidan, M. Rizwan, and M. Jamil, "Design and Development of a Proficient Converter for Solar Photovoltaic Based Sustainable Power Generating System," *Sustainability*, vol. 13, no. 4, p. 2045, Feb. 2021, doi: 10.3390/su13042045.
61. Jamil, Majid and Amit Kumar Sharma. "Reconfiguration of electrical distribution system using ACO methodology." *J. Intell. Fuzzy Syst.* 35 (2018): 4901-4908.

Selected Conferences

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2. Mujeeb Ahmed, Deepak Kumar, Majid Jamil, Deep Learning Based Modelling for Degradation Analysis and SOH Estimation of Commercial Lithium-Ion Batteries. IEEE Third International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), PP1139-44, 2024.
3. Kumari Sadhna, Aman Srivastava, Majid Jamil, Comprehensive Evaluation of Time Management with Balancing Resistors in Passive Cell Balancing Using the 1RC Model, International Conference on Intelligent Computing Techniques For Smart Energy Systems, 127-142, Springer Nature Singapore.2023.
4. M. Yadav, N. Pandey and M. Jamil, "Impact of Plug-in Electric Vehicle on Residential Demand Side Management," 2020 International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC), Mathura, India, 2020, pp. 365-369, doi: 10.1109/PARC49193.2020.236627.
5. T. Bhattacharjee and M. Jamil, "GOOSE Publishing and Receiving Operations of IEC 61850 Enabled IEDs," 2019 IEEE 1st International Conference on Energy, Systems and Information Processing (ICESIP), Chennai, India, 2019, pp. 1-6, doi: 10.1109/ICESIP46348.2019.8938272.
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7. A. Dube, M. Jamil and M. Rizwan, "Analysis of Different MPPT Techniques Under Partial and Un-shaded Condition for Solar PV System," 2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, India, 2018, pp. 576-581, doi: 10.1109/ICPEICES.2018.8897327.
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9. M. Yadav, M. Jamil and M. Rizwan, "Microcontroller Based Load Prioritization Technique in Residential Sector," 2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, India, 2018, pp. 1083-1086, doi: 10.1109/ICPEICES.2018.8897394.
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13. M. Ehtesham, S. A. Rana, S. Ali and M. Jamil, "Inverter Control Strategy for Enabling Voltage and Frequency Regulation of Grid Connected PV System," 2018 IEEE 8th Power India International Conference (PIICON), Kurukshetra, India, 2018, pp. 1-6, doi: 10.1109/POWERI.2018.8704429.
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22. S. Agarwal and M. Jamil, "A comparison of photovoltaic maximum power point techniques," 2015 Annual IEEE India Conference (INDICON), New Delhi, India, 2015, pp. 1-6, doi: 10.1109/INDICON.2015.7443435.
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