

Dr. Ward Ul Hijaz Paul



CONTACT DETAILS

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QUALIFICATIONS

- **Certified Ph.D. Electrical Engineering**
- **Certified M.Tech. Electrical Power System Management**
- **Certified GATE 2020, GATE 2019, GATE 2018 in Electrical Engineering**
- **Certified B.Tech. Electrical Engineering**
- **Certified Higher Secondary School Leaving Certificate**
- **Certified Secondary School Leaving Certificate**

EDUCATION

Jamia Millia Islamia, New Delhi, India (Central University – NIRF Ranking 3)

- **Ph.D. Electrical Engineering** October 2019 – February 2024
Percentage - 82% marks in Course work examination (Distinction)

Jamia Millia Islamia, New Delhi, India (Central University – NIRF Ranking 3)

- **M.Tech. Electrical Power System Management** August 2017 – May 2019
Percentage - 87% marks with 8.7 pointer CGPA on 10.0 pointer base (Distinction)

Islamic University of Science and Technology, Kashmir, India

- **B.Tech. Electrical Engineering** August 2013 – June 2017
Percentage - 77.69% marks with 7.38 pointer CGPA on 9.5 pointer base (Distinction)

The Jammu & Kashmir State Board of School Education, India

- **Higher Secondary School Examination 10+2** December 2012
Percentage - 82.60% (Distinction)
- **Secondary School Examination** December 2010
Percentage - 92.80% (Distinction)

EXPERIENCE & INTERNSHIPS

University of Kashmir, Srinagar, India

Assistant Professor (Electrical Engineering) March 2025—Present

- Subjects Taught: Principles of Electrical Engineering, Restructuring of Power Systems

Government College of Engineering and Technology, Safapora, Kashmir

Assistant Professor (Electrical Engineering) March 2024—March 2025

- Subjects Taught: Basic Electrical Engineering, Renewable Energy, High Voltage Engineering

Jamia Millia Islamia, New Delhi, India

Research Scholar October 2019 – February 2024

- Working on Research Projects and as Teaching Assistant

PUBLICATIONS

- **W. U. H. Paul, A. S. Siddiqui, and S. Kirmani, “Development of Short-Term Load Forecasting Model for DSM by Regulating Charging and Discharging of EVs and ESS with RES Based on the Prediction of this Model,”** Journal of Engineering Science and Technology Review, vol. 16, no. 6, pp. 63–72, Dec. 2023, doi: 10.25103/jestr.166.08.
- **O. Siddiqui, W. U. H. Paul, S. Kirmani, M. Ahmad, D. Ali, and M. S. Ali, “Voltage and Frequency Control in a Microgrid,”** Journal of Engineering Science and Technology Review, vol. 15, no. 6, pp. 115–124, 2022, doi: 10.25103/jestr.156.14.
- **W. U. H. Paul, A. S. Siddiqui, and S. Kirmani, “Modeling Optimal Energy Consumption in Smart Grid Households: Integrating Advanced Strategies with Energy Storage,”** Tuijin Jishu/Journal of Propulsion Technology, vol. 45, no. 1, pp. 1169–1180, 2024, doi: 10.52783/tjjpt.v45.i01.4146.
- **W. U. H. Paul, A. S. Siddiqui, S. Kirmani, M. S. Ali, A. Ahmad, and Ibraheem, “Development of Strategies for the Optimal Rescheduling of the Household Load having RES Integration,”** Tuijin Jishu/Journal of Propulsion Technology, vol. 44, no. 3, pp. 3859–3867, 2022, doi: 10.52783/tjjpt.v44.i3.2145.
- **W. U. H. Paul, A. S. Siddiqui, and S. Kirmani, “Optimal Positioning of Distributed Energy using Intelligent Hybrid Optimization,”** J Phys Conf Ser, vol. 2570, no. 1, p. 012022, Aug. 2023, doi: 10.1088/1742-6596/2570/1/012022.
- **W. U. H. Paul, R. A. Khan, and D. Hamid, “Techno-Economic Feasibility Analysis of PM Surya Ghar - Muft Bijli Yojana in Jammu & Kashmir, India: A GIS-Based and Financial Modeling Approach,”** International Journal of Advanced Multidisciplinary Research and Studies, vol. 5, no. 1, pp. 767–787, Feb. 2025, doi: 10.62225/2583049X.2025.5.1.3720.
- **W. U. H. Paul, A. S. Siddiqui, and S. Kirmani, “Intelligent Load Management System Development with Renewable Energy for Demand Side Management,”** International Journal of Advanced Engineering and Management Research, vol. 8, no. 2, Apr. 2023, doi: 10.51505/ijaemr.2022.8213.
- **W. U. H. Paul, A. S. Siddiqui, and S. Kirmani, “Demand Side Management and Demand Response For Optimal Energy Usage: An Overview,”** Paripex Indian Journal of Research, pp. 151–152, Nov. 2022, doi: 10.36106/paripex/0608823.
- **W. U. H. Paul, A. S. Siddiqui, and S. Kirmani, “Demand Side Management Strategies in Residential Load With Renewable Energy Integration: A Brief Overview,”** Paripex Indian Journal of Research, vol. 11, no. 12, pp. 66–69, Dec. 2022, doi: 10.36106/paripex/3007742.
- **W. U. H. Paul, A. S. Siddiqui, and S. Kirmani, “Optimal Rescheduling for Transmission Congestion Management using Intelligent Hybrid Optimization,”** in Artificial Intelligence of Things, Springer Nature Switzerland AG, 2024. doi: 10.1007/978-3-031-48781-1_12.
- **M. S. Ali, A. Ahmad, Ibraheem, W. U. H. Paul, A. S. Siddiqui, and S. Kirmani, “Optimal Sizing and Placement of Energy Storage Systems in Hybrid Energy Environment,”** Tuijin Jishu/Journal of Propulsion Technology, vol. 44, no. 3, pp. 3147–3155, 2023, doi: 10.52783/tjjpt.v44.i3.1412.
- **O. Siddiqui, W. U. H. Paul, and T. Alam, “Electromagnetic Modelling & Experimental Analysis of Weld Tool Coil in Magnetic Pulse Welding,”** International Journal of Advanced Multidisciplinary Research and Studies, vol. 4, no. 3, pp. 1049–1055, June 2024, doi: 10.62225/2583049X.2024.4.3.2896
- **D. Kumar, A. S. Siddiqui, H. P. Singh, M. R. Tripathy, and W. U. H. Paul, “Design and Implementation of Reconfigurable Frequency and Polarization Microstrip Patch Antenna for X-Band Application,”** Tuijin Jishu/Journal of Propulsion Technology, vol. 44, no. 5, pp. 2859–2870, Dec. 2023, doi: 10.52783/tjjpt.v44.i5.3042.
- **S. Kirmani, W. U. H. Paul, M. B. Bhat, I. Akhtar, and A. S. Siddiqui, “Optimal Allocation of V2G Stations in a Microgrid Environment: Demand Response,”** in 2023 International Conference on Power, Instrumentation, Energy and Control (PIECON), IEEE, Feb. 2023, pp. 1–6. doi: 10.1109/PIECON56912.2023.10085813.
- **D. Ali, W. U. H. Paul, M. S. Ali, M. Ahmad, and H. Ashfaq, “Optimal Placement of Distribution Generation Sources in Hybrid Generation Network,”** Smart Grid and Renewable Energy, vol. 12, no. 6, pp. 65–80, 2021, doi: 10.4236/sgre.2021.125005.
- **M. U. Bashir, W. U. H. Paul, M. Ahmad, D. Ali, and Md. S. Ali, “An Efficient Hybrid TLBO-PSO Approach for Congestion Management Employing Real Power Generation Rescheduling,”** Smart Grid and Renewable Energy, vol. 12, no. 08, pp. 113–135, 2021, doi: 10.4236/sgre.2021.128008.
- **Akhtar, W. U. H. Paul, S. Kirmani, and M. Asim, “Cost Analysis of 18 kW Solar Photovoltaic System for Smart Cities Growth in India,”** in Lecture Notes in Electrical Engineering, 2021. doi: 10.1007/978-981-33-4080-0_63.
- **M. Ahmad, D. Ali, W. U. H. Paul, M. S. Ali, and H. Ashfaq, “Management of Energy and Coordinated Control of PV/HES in Islanded DC Microgrid,”** in Smart Energy and Advancement in Power Technologies, vol. 1, Springer, Sing., 2023, pp. 325–339. doi: 10.1007/978-981-19-4971-5_25.
- **Md. S. Ali, A. Ahmad, W. U. H. Paul, D. Ali, and M. Ahmad, “Optimal Allocation of Wind-Based Distributed Generators in Power Distribution Systems Using Probabilistic Approach,”** in Smart Energy and Advancement in Power Technologies, vol. 1, Springer Singapore, 2023, pp. 385–396. doi: 10.1007/978-981-19-4971-5_29.
- **W. U. H. Paul, S. Kirmani, M. B. Bhat, and S. A. Nahvi, “Data Based Controller Design for PMDC Motor Setup using System Identification,”** Studies in Indian Place Names, vol. 40, p. 11, 2020.

CONFERENCES, WORKSHOPS & EVENTS

- Attended 1-week Short Term Course " **Recent Trends and Application of Nanotechnology in Engineering**" organized by **National Institute of Technology, Srinagar**, during July 22nd –26th, 2024.
- Attended 3-day Faculty Development Programme "**Advancement of Control and Measurement Technologies in Electric Vehicle and Smart Grids**" organized by **Department of Electrical Engineering, Jamia Millia Islamia, New Delhi**, during March 11th – March 13th, 2024.
- Attended and presented a paper in 2-day " **International Conference on Artificial Intelligence of Things (ICAIoT-2023)**" organized by **National Institute of Technical Teachers Training and Research, Chandigarh**, during February 30th – 31st, 2023.
- Attended and presented a paper in 2-day " **International Conference on Advancements and Key Challenges in Green Energy and Computing (AKGEC-2023)**" organized by **Aligarh Muslim University, Aligarh**, during February 24th – 25th, 2023.
- Attended and presented a paper in 2-day "**IEEE International Conference on Power, Instrumentation, Energy, and Control (PIECON-2023)**" organized by **Aligarh Muslim University, Aligarh**, during February 10th - 12th, 2023.
- Attended and presented two papers in 2-day "**International Conference on Smart Energy and Advancement in Power Technologies 2021**" organized by **National Institute of Technology, Jamshedpur**, during September 6th - 7th, 2021.
- Attended, presented and won Best Paper Award in 3-day "**Jamia Teachers Association Multidisciplinary International Conference**" organized by **JTA, Jamia Millia Islamia, New Delhi**, during February 16th - 18th, 2020.
- Attended, presented a paper in "**International Conference on Renewable Power-2020**" jointly organized by the **Electrical Engineering Department, SoET, Baba Ghulam Shah Badshah University, Rajouri, J&K** & **Electrical Engineering Department, ZHCET, Aligarh Muslim University, Aligarh** on July 13th & 14th, 2020.
- Attended 2-day "**International Conference on Power Electronics, Control and Automation**" organized by **Department of Electrical Engineering, Jamia Millia Islamia, New Delhi**, during November 16th – November 17th, 2019.
- Attended 1 week AICTE Training and Learning (ATAL) program "**Adaptive Manufacturing (AM) Applications**" organized by **Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi**, during November 4th – November 8th, 2019.
- Attended 2-week training course on "**Rooftop Solar Grid Engineer**" jointly organized by **National Institute of Solar Energy and Department of Electrical Engineering, Jamia Millia Islamia, New Delhi** at **Jamia Millia Islamia, New Delhi** campus during January 14th, 2019 – January 24th, 2019.
- Attended 1-week **GIAN** course (an MHRD initiative) on "**Role of Smart Building Energy Management Systems in the Development of Smart City**", organized by **Department of Electrical Engineering, Jamia Millia Islamia, New Delhi**, during March 6th – March 10th, 2018.
- Attended author workshop on "**Scholarly writing & Intellectual Ethics**" jointly organized by **Dr. Zakir Hussain Library, Jamia Millia Islamia, New Delhi** & **Elsevier** on September 26th, 2017.
- Won Runner-up award in Electrical Engineering event at **Techvaganza 2015** organized by **National Institute of Technology, Srinagar** during May 2015.

SPORTS

I have certifications from Squash and Racket Federation of India (SRFI) and have represented Jammu & Kashmir State twice at National Level Squash Championships at:

- 61st Senior National Squash Championship - Jaipur, India 2013
- Sub-Junior / Junior National Squash Championship - Indore, India 2013

I have participated in State Squash Championship at:

- Junior State Squash Championship - Amar Singh Club, Srinagar, India 2013

I have also participated in various games and sports activities representing my department in university.

REFERENCES

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