Dr. Ward Ul Hijaz Paul



CONTACT DETAILS

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Google Scholar: https://scholar.google.com/citations?user=12PA7w0AAAAJ
ResearchGate: https://researchgate.net/profile/Ward-Ul-Hijaz-Paul
Web of Science: https://webofscience.com/wos/author/record/PLR-6902-2026
Scopus: https://scopus.com/authid/detail.uri?authorId=57223590303
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PROFESSIONAL SUMMARY

Academic and researcher in Electrical Engineering specializing in Electric Vehicles, Smart Grids, Demand Side Management, and optimization-based energy management. Published extensively in reputed journals and international conferences. Actively engaged in teaching, research, curriculum development, and student mentoring.

QUALIFICATIONS

- **Ph.D. Electrical Engineering**
- **M.Tech. Electrical Power System Management**
- **GATE 2020, 2019, 2018 in Electrical Engineering**
- **B.Tech. Electrical Engineering**
- **Higher Secondary Part Two Examination (Class XII)**
- **Secondary School Examination (Class X)**

EXPERIENCE (ACADEMIC AND RESEARCH)

National Institute of Technology, Srinagar, India *(Institute of National Importance)*

- **Assistant Professor** (Electrical Engineering) *September 2026 - Present*
  Subjects Taught: Power Systems, Electrical Substation Design

University of Kashmir, Srinagar, India *(NAAC A++)*

- **Assistant Professor** (Electrical Engineering) *March 2025 - September 2026*
  Subjects Taught: Design of Photovoltaic Systems, SCADA Systems, 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: Power System, Basic Electrical Engineering, Renewable Energy, High Voltage Engineering

EDUCATION

Jamia Millia Islamia, New Delhi, India *(Central University - NIRF Ranking 3 - NAAC A++)*

- **Ph.D. Electrical Engineering** *October 2019 - February 2024*
  Percentage - 82% marks in Course work examination (Distinction)
  Topic of Research: *Demand Side Management in Smart Grid Environment for Optimal Energy Usage*

Jamia Millia Islamia, New Delhi, India *(Central University - NIRF Ranking 3 - NAAC A++)*

- **M.Tech. Electrical Power System Management** *August 2017 - May 2019*
  Percentage - 82% marks with 8.7 pointer CGPA on 10.0 pointer base (Distinction)

Islamic University of Science and Technology, Kashmir, India *(State University)*

- **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 Part Two Examination (Class XII)** *December 2012*
  Percentage - 82.60% (Distinction)
- **Secondary School Examination (Class X)** *December 2010*
  Percentage - 92.80% (Distinction)



PUBLICATIONS

- **W. U. H. Paul**, A. S. Siddiqui, and S. Kirmani, "**An Effective Duck Curve Problem Solution using Intelligent Hybrid Optimization**," *Journal of Engineering Science and Technology Review*, vol. 19, no. 1, Feb. 2026. https://doi.org/10.25103/jestr.191.08
- **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, https://doi.org/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, https://doi.org/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**," *Journal of Propulsion Technology*, vol. 45, no. 1, pp. 1169-1180, 2024, https://doi.org/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**," *Journal of Propulsion Technology*, vol. 44, no. 3, pp. 3859-3867, 2022, https://doi.org/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**," *Journal of Physics, Conf. Series*, vol. 2570, no. 1, p. 012022, Aug. 2023, https://doi.org/10.1088/1742-6596/2570/1/012022
- **W. U. H. Paul**, A. S. Siddiqui, and S. Kirmani, "**Techno-Economic Assessment of Electric Vehicles in India: Evaluating BaaS Models, ICE Parity, and Next-Generation Platforms**," *Journal of Advanced Education and Sciences*, vol. 6, no. 2, pp. 1-13 Mar. 2026 https://doi.org/10.64171/JAES.6.2.1-13
- **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, https://doi.org/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, pp. 140-153 Apr. 2023, https://doi.org/10.51505/ijaemr.2023.8213
- **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, https://doi.org/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, https://doi.org/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. ICAIoT 2023. Communications in Computer and Information Science*, vol 1930. Springer, Cham. https://doi.org/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**," *Journal of Propulsion Technology*, vol. 44, no. 3, pp. 3147-3155, 2023, https://doi.org/10.52783/tjjpt.v44.i3.1412
- M. S. Ali, A. Ahmad, Ibraheem, **W. U. H. Paul, "Evaluating the Efficacy of Proportional-Integral and Sliding Mode Control in a PMSG Wind Energy Conversion System**," *International Journal of Science, Mathematics and Technology Learning*, vol. 33, no. 2, pp. 709-721, 2025. https://doi.org/10.5281/zenodo.19136880
- 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, https://doi.org/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**," *Journal of Propulsion Technology*, vol. 44, no. 5, pp. 2859-2870, Dec. 2023, https://doi.org/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. https://doi.org/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, https://doi.org/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, https://doi.org/10.4236/sgre.2021.128008
- I. 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 *Renewable Power for Sustainable Growth. Lecture Notes in Electrical Engineering*, vol 723. Springer, Singapore. https://doi.org/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/HESS in Islanded DC Microgrid**," in *Smart Energy and Advancement in Power Technologies. Lecture Notes in Electrical Engineering*, vol 926. Springer, Singapore. https://doi.org/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. Lecture Notes in Electrical Engineering*, vol 926. Springer, Singapore. https://doi.org/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. https://doi.org/10.5281/zenodo.19130923



CONFERENCES, WORKSHOPS & EVENTS

- Attended 1-week Faculty Development Programme **"Advancements In Energy Systems And Practices For Sustainable Development"** organized by *Department of Electrical Engineering, Jamia Millia Islamia, New Delhi*, during August 27th - August 31st , 2026.
- Attended 1-week Faculty Development Programme **"Emerging Technologies in the field of Electrical & Electronics Engineering"** organized by *Amity School of Engineering and Technology, Amity University, Noida*, during June 9th - June 13th, 2025.
- 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 March 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 -17th, 2019.
- Attended 1 weak 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* 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. .

SPORTS

Certified by the **Squash and Racket Federation of India (SRFI)**.

Represented **Jammu & Kashmir** at the National Level Squash Championships:

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

Participated in Junior State Squash Championship, Amar Singh Club, Srinagar (2013).

Actively involved in various university-level sports activities, representing the department in inter-departmental competitions.

REFERENCES

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