DR. RISHABH DEV SHUKLA

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PROFESSIONAL SUMMARY

A dedicated academic leader with extensive experience as a Professor and Academic Administrator in higher education, specialising in accreditation, quality assurance, innovative curriculum development, impactful research, and effective leadership. Proven expertise in fostering student success, advancing engineering education, and building strong industry and community partnerships to enhance learning and career readiness. Committed to promoting diversity, equity, and inclusion to ensure equal opportunities for all students.

RESEARCH MATRIX

Google Scholar		Citation: 817, H-index: 14, i10-index: 18
Scopus		ID:36976271700, Citation: 435, H-index: 11
ORCID		ID: 0000-0003-3357-6594
ResearchGate		Research Interest Score: 359.7, Citations: 456, h-index: 11
WoS/Publons		WoS Researcher ID: M-3360-2019
VIDWAN	VIDWAN Expert Database & National Researcher's Network	VIDWAN ID: 542702

SKILLS

- ✓ **Computer/Programming Skill:** Software Packages Embedded C, C++ (ANSI Std), Microchip Studio, MATLAB, Simulink, NI LabView, XILINX System Generator, PSPICE, freeRTOS, and AVR Bare Metal.
- ✓ **Hardware Modelling and Circuit Integration:** DC-DC Converters, PWM Inverter, Power Converters etc.
- ✓ **Teaching Skill:** Proficient in delivering lectures in the field of Electrical & Electronics Engineering (medium of instruction in English)
- ✓ **Handled major administrative tasks related to** Academics in different Capacities at the College/University Level.
- ✓ **Handled major Accreditation Activities** (NBA, NAAC, ABET) in different capacities at the College/University/Departmental Level.

QUALIFICATIONS

Degree	University	Year of Completion	Thesis/Project Title
Ph.D. (Electrical Engineering-Power Electronics)	Motilal Nehru National Institute of Technology, Allahabad, Uttar Pradesh, India-211004	2015	*Voltage & Frequency Control in Autonomous DFIG-based Wind Energy Systems*.
M. Tech. (Computer Science & Engineering)	Maulana Abul Kalam Azad University of Technology (formerly known as WBUT)	2024	*Deep-learning-Based Model for Short-term Electricity Price Forecasting.*
M. Tech (Electronics Engineering)	University of Allahabad, Uttar Pradesh, India	2008	*Discrete-time AC/DC system model for Stability Analysis and Control*
B. Tech (Electrical & Electronics Engineering)	Uttar Pradesh Technical University, Lucknow, Uttar Pradesh, India	2006	*Stepper Motor Control Using Microcontroller*

WORK EXPERIENCE (15+ Years' Experience, Including 14 Years Administrative)

S.N.	Designation	University/College/Institute	Duration		
			From	To	Total
1	Professor & HoD-ECE & EE	Chandigarh University, Mohali, Punjab (India)-140413	06/11/2024	Working	1 year, 2 months till date
2	Professor & HoD-EE and Campus Admin	Budge Budge Institute of Technology, Kolkata, WB-700138	18/12/2019	29/10/2024	4 years, 10 months, & 11 days
3	Associate Professor & Dean (Diploma)	Budge Budge Institute of Technology, Kolkata, WB-700138	18/07/2015	17/12/2019	4 years, 4 months, & 30 days
4	Visiting Faculty	Motilal Nehru National Institute of Technology Allahabad, Prayagraj, Uttar Pradesh- 211004	01/08/2013	15/05/2015	1 year 9 months 14 days
5	Research Scholar	Motilal Nehru National Institute of Technology Allahabad, Prayagraj, Uttar Pradesh- 211004	21/07/2010	31/07/2013	3 years & 10 days
6	Assistant Professor	Sambhunath Institute of Engineering & Technology, Prayagraj, Uttar Pradesh	01/07/2009	20/07/2010	1 year & 19 days
7	Senior Lecturer	C.S.M. College of Engineering and Technology, Allahabad	29/09/2008	30/06/2009	9 months

S.N.	Designation	University/College/Institute	Duration		
			From	To	Total
8	Lecturer	B.B.S. College of Engineering & Technology, Allahabad	23/01/2008	28/09/2008	8 months

Subjects, Laboratories handled:

- At the undergraduate level (i.e., B.Tech), following Theory Subjects: 1. Basic Electrical Engineering, 2. Basic Electrical & Electronics Engineering, 3. Power Quality, 4. Electrical Drives, 5. Power Electronics. 6. Non-conventional and Renewable Energy. 7. Introduction to Machine Learning, 8. Utilization of Electrical Energy, 9. Embedded System, 10. Introduction to IoT Using Python.
- At the postgraduate level (i.e. M.Tech), following Theory Subjects: 1. Advanced Power Electronics, 2. Advance Electrical Drive, 3. Power Quality, 4. Intelligent Control of Drives, 5. Non-conventional Energy, 6. Power Quality and Industrial Electronics, 7. HVDC Transmission, 8. IoT in Smart Mobility
- At the undergraduate level (i.e. B.Tech) following Laboratories: 1. Basic Electrical Engineering Lab, 2. Basic Electrical & Electronics Engineering Lab, 3. Power Electronics Lab, 4. Industrial Electronics Lab, 5. Electric Drives Lab, 6. Electrical & Electronics Design Lab.
- At the postgraduate level (i.e. M. Tech), following Theory Laboratories: 1. Advance Power Electronics and Drives Lab, 2. Advance Electrical Drives Lab, 3. Simulation Lab.

Projects handled (Sponsored Research/Consultancy):

- Project-1: Study, Design, and Implementation of Energy Saving and Conserving Systems, Consultancy for Industry, JKB Gas Pvt. Ltd., Kolkata, Duration: 36 months, from 20/09/2016 to 14/10/2019; Cost: 1750000/- (in INR).
- Project-2: Design and Implementation of 7.5 kW Renewable Energy Generation System, Consultancy for Industry, Bharat Lubs. Pvt. Ltd. Kolkata, Duration: 18 months, Cost 750000/- .
- Project-3: Study, Design, and Implementation of Energy Saving and Conserving Systems, Consultancy for Industry, Jagannath Gupta Institute of Medical Sciences & Hospital, K. P. Mondal Road, Butia, Budge Budge, Kolkata-700137, Duration: 30 months, Cost: 1500000/- (in INR).
- Project-4: Design and Implementation of 10 kW Renewable Energy Generation System, Consultancy for Industry, Bhagyalakshmi Vanijya Pvt. Ltd., Kolkata, Duration: 18 months, from 23/04/2019 to 2708/2020; Cost 900000/-.
- Project-5: Unnat Bharat Abhiyan (UBA) Project Under MoE, GoI for the Session 2022-2023, Duration: 18 months, Cost: 50000/-

Expert Talk/Lecture Delivered

- Expert Talk as a Keynote Speaker on the topic “Recent Advancement in Renewable Energy Conversion Systems: Solar PV & Wind” in the International Conference on Multidisciplinary Approach & Their Scope (ICMAS-2023) organized by Dr. K N Modi University on 27/01/2023 from 2.30 pm to 4.00 pm.
- Expert Talk as a Resource Person on “Energy Harvesting Wireless Communications/Sensor Networks” in AICTE-sponsored One-week Faculty Development Programme on “Advanced Next Generation Wireless Techniques,” organized by United College of Engineering and Research Allahabad from 20th— 25th July 2020.

- Expert Talk as a Resource Person on Voltage and Frequency control in Autonomous DFIG-based WESs in a week Faculty Development Programme on "Recent Advances in Renewable Energy Technologies and Smart Micro-grids organized by the Electrical Engineering Department of Kamla Nehru Institute of Technology, Sultanpur
- Expert Talk as a Resource Person titled "Generation via Wind Energy conversion systems" in Trends in Power Generation & Utilization organized by BBIT Kolkata with IE(I) during 2017-05-23.

Event (Seminar/Conference/Workshop/STTP/FDP) Organized:

- Organized and served as Organizing Chair for the 2nd International Conference on Innovative Trends in Electrical, Electronics, and Bio-Technology Engineering (ICITEEB-2025), hosted by the Departments of Electrical Engineering and Electronics & Communication Engineering, Chandigarh University, Mohali, held on 8th–9th July 2025.
- One-week Faculty Development Program (FDP) on "Smart Sensors, IoT, and AI in Agriculture: Innovations for Sustainable Farming in online mode, organized as a Convener by the Department of ECE & EE, Chandigarh University, in collaboration with Electronics & ICT Academy, PDPM IIITDM Jabalpur, during 19th – 24th May 2025
- Served as Coordinator and SPOC for the Finishing School for Employability Program — a 100-hour hands-on training in Robotic Process Automation (RPA) Design & Development, organized for ECE & EE Departments at Chandigarh University in collaboration with ICT Academy and Infosys, conducted from 17th February to 11th March 2025.
- One-week Short Term Training Program (STTP) on "Recent Advancements in Electrical Grid, Renewable Energy, and its applications in EVs" Organized as a Convener by the Department of Electrical Engineering, Budge Budge Institute of Technology, Kolkata, West Bengal, in association with The Institution of Engineers (India), Durgapur Local Centre, Duration: 13th-17th March'2023
- One Week National Level Faculty Development Program on Amazon Web Services (AWS) organized as a Coordinator by the Department of Electrical Engineering of BBIT in collaboration with Brainovision Solutions India Pvt. Ltd and in association with All India Council for Technical Education (AICTE) with 13000+ diligent learners from 22-08-2022 to 27-08-2022.
- One Week Online STTP on "Smart Technologies in Energy Scenario", organized as a Coordinator, by the Department of Electrical Engineering of BBIT in collaboration with the IE(I) & IETE, from 10th—14th August 2020.
- All India Seminar on "Energy System: Generation, Utilization and Control," organized as a Coordinator, Department of Electrical Engineering of BBIT in Technical Collaboration with The Institution of Engineers (India), February 21st-22nd, 2019.

IPR (Patents/Copyrights/Design):

1. Canadian Copyright and Grant: Title:- **Energy-Efficient Induction Motor Drives For Industrial Use**, Registration Number- 1219616, Registration Date or Granted: 24th August 2024. https://www.ic.gc.ca/app/opic-cipo/cpyrghts/dtls.do?fileNum=1219616&type=1
2. Canadian Copyright and Grant: Title:- **Artificial Intelligence and IoT-Based Efficient Management of Economical Vehicles Utilized on Sharing Basis**, Registration Number-1201546, Date of Registration: 29th March 2023 & Date of Grant: 24th April 2023.https://www.ic.gc.ca/app/opic-cipo/cpyrghts/dtls.do?fileNum=1201546&type=1&lang=eng
3. Indian Utility Patent: Title: **AI-Driven Smart Energy Metering System for Real-Time Consumption Analysis and Optimization Using IoT and Machine Learning Algorithms**, Application Number- 202441076278, Journal Number- 202441076278, Publication Date:

8/10/2024 -Indian Patent Office Journal.

4. Indian Utility Patent: Title: **A Hybrid and Integrated Renewable Energy System With Advanced Energy Management**, Application No.202421043458 A, Date of filing of Application: 05/06/2024, Publication Date: 05/07/2024, The Patent Office Journal No. 27/2024 Dated 05/07/2024, Page No. 58391.
5. Indian Utility Patent: Title: **Optimization of Electrical Vehicle Charging in the Presence of Solar Power Using Deep Reinforcement Learning**, Application No.202331044608 A, Date of filing of Application: 03/07/2023, Publication Date: 18/08/2023, The Patent Office Journal No. 33/2023 Dated 18/08/2023, Page No. 54177.
6. Indian Utility Patent: Title: **Design and Usability of Interfaces for Automated Vehicles**, Application No.202341037112 A, Date of filing of Application: 29/05/2023, Publication Date: 16/06/2023, The Patent Office Journal No. 24/2023 Dated 16/06/2023, Page No. 54177.
7. Indian Design IPR and Grant: Title: **Solar Power Electric CAR**, Application Number-387220-001, Cbr Number-206664, Cbr Date:29/05/2023. Design Accepted and Published in The (Indian) Patent Office Journal No. 32/2024 and Journal (Publication) Date is 09/08/2024, Page no. 72385. https://search.ipindia.gov.in/DesignQRStatus/PDF_Viewer.aspx?AppNo=Mzg3MjIwLTAwMQ==&CNo=MTc3NjEy
8. Indian Design IPR and Grant: Title: **WIND MILL**, Application Number-404439-001, Cbr Number-200587, Cbr Date:13/01/2024. Design Accepted and Published in The (Indian) Patent Office Journal No. 16/2024 and Journal (Publication) Date is 19/04/2024, Page no. 39071. https://search.ipindia.gov.in/DesignQRStatus/PDF_Viewer.aspx?AppNo=NDA0NDM5LTAwMQ==&CNo=MTY1MTU1
9. Indian Design IPR and Grant: Title: **Coupled Solar and Wind Mill Controlling System**, Application Number- 395315-001, Date:17/09/2023, Registration/Grant: 12/02/2024. https://search.ipindia.gov.in/DesignQRStatus/PDF_Viewer.aspx?AppNo=Mzk1MzE1LTAwMQ==&CNo=MTU2OTM3
10. Indian Design IPR and Grant: Title:- **Hydrogen Fuelled Bike**, Application Number-394196-001, Registration Date: 31/08/2023. Design Accepted and Published, Journal No is 43/2023 and Journal Date is 27/10/2023. https://search.ipindia.gov.in/DesignQRStatus/PDF_Viewer.aspx?AppNo=Mzk0MTk2LTAwMQ==&CNo=MTQ3MDMz
11. Indian Design IPR and Grant: Title:- **Solar Enabled Two-Wheeler Vehicle**, Application Number-385698-001, Registration Date: 07/05/2023. Design Accepted and Published, The Patent Office Journal No.29/2023 and Publication Date 21/07/2023, Page no. 50884. https://search.ipindia.gov.in/DesignQRStatus/PDF_Viewer.aspx?AppNo=Mzg1Njk4LTAwMQ==&CNo=MTQwODM5
12. Indian Design IPR and Grant: Title:- **Wireless Laptop Charger Cum Cooling Pad**, Application Number-385882-001, Cbr Number-205775, Cbr Date:09/05/2023. Design Accepted and Published, The (Indian) Patent Office Journal No is 28/2023 Publication Date: 14/07/2023, Page no. 49808. https://search.ipindia.gov.in/DesignQRStatus/PDF_Viewer.aspx?AppNo=Mzg1ODgyLTAwMQ==&CNo=MTQwNzQw
13. UK Design IPR and Grant: Title:- **Sun-Tracking Solar Panel**, Design Number-6285134, Date of Registration: 24/05/2023, Date of Grant: 04/06/2023, Publication Date: 05/06/2023, https://www.registered-design.service.gov.uk/find/6285134.
14. Indian Design IPR and Grant: Title: **Solar Air Conditioner**, Application Number-383532-001, Issued on: 29/02/2024, Cbr Number-204492, Cbr Date:10/04/2023, Design Accepted and Published in The (Indian) Patent Office Journal https://search.ipindia.gov.in/DesignQRStatus/PDF_Viewer.aspx?AppNo=MzgzNTMyLTAwMQ==&CNo=MTU4OTE0
15. Indian Design IPR and Grant: Title: **Solar Charging Station for Electric Vehicles**, Application Number- 388722-001, Cbr Number- 207705, Cbr Date:21/06/2023, Design Accepted and Published, Journal No is 47/2025 and Journal Date is 21/11/2025.
16. Indian Design IPR and Grant: Title:- **Electric Vehicles (EVs) Charging Station**, Design No:

449491-001, Issued Jun 5, 2025, Published in Journal No.: 23/2025 Dated 06/06/2025 (Page No.-55795)
https://search.ipindia.gov.in/DesignQRStatus/PDF_Viewer.aspx?AppNo=NDQ5NDkxLTAwMQ==&CNo=MjAxMjQx

17. Indian Design IPR and Grant: Title:- **Solar-Based Wireless Smart EV Charging System,** Design No.: 434708-001, Grant Date: 04/02/2025, Published in Indian Patent Office Journal No.: 06/2025 (07/02/2025)
https://search.ipindia.gov.in/DesignQRStatus/PDF_Viewer.aspx?AppNo=NDM0NzA4LTAwMQ==&CNo=MTkxMzc4
18. UK Design IPR and Grant: Title:- **Sun-Tracking Solar Panel**, Design Number-6285134, Date of Registration: 24/05/2023, Date of Grant: 04/06/2023, Publication Date: 05/06/2023, https://www.registered-design.service.gov.uk/find/6285134.
19. Indian Design IPR and Grant: Title:- **Solar-Enabled Two-Wheeler Vehicle**, Application Number-385698-001, Registration Date: 07/05/2023. Design Accepted and Published, The Patent Office Journal No.29/2023 and Publication Date 21/07/2023, Page no. 50884. https://search.ipindia.gov.in/DesignQRStatus/PDF_Viewer.aspx?AppNo=Mzg1Njk4LTAwMQ==&CNo=MTQwODM5

Publications:

Journals:

1. Rishabh Dev Shukla & Prof. R.K. Tripathi, "Instantaneous Direct Voltage and Frequency Control in DC Grid Tied DFIG based Wind Energy System," International Journal of Electrical Power and Energy Systems, vol. 100C, pp 309-319 2018. (SCI & Scopus Indexed Journal with Impact factor: 5.2) https://doi.org/10.1016/j.ijepes.2018.02.043, ISSN: 0142-0615
2. Utsav Jaldi, P Thakur, Rishabh Dev Shukla, "A New Parameter Estimation Method of Solar Photovoltaic", IEEE Journal of Photovoltaics, Vol. 8, Issue 1, pp. 127-139, Year 2018. [ISSN: 2156-3381]. (SCI & Scopus Indexed Journal with Impact factor: 3.887) https://doi.org/10.1109/JPHOTOV.2017.2767602
3. Rishabh Dev Shukla & Prof. R.K. Tripathi, P Thakur"DC bus/grid Tied DFIG based Wind Energy Systems", Renewable Energy, Publisher: Elsevier, Vol. 108, August (2017) pp. 179-193, [ISSN: 0960-1481]. (SCI & Scopus Indexed Journal with Impact factor: 8.7) https://doi.org/10.1016/j.renene.2017.02.064
4. Nitin Singh, SR Mohnty, Rishabh Dev Shukla, "Short Term Electricity Price Forecast Based On Environmentally Adapted Generalized Neuron", Energy, An International Journal (Publisher: Elsevier), Vol. 125, April (2017) pp. 127-139 [ISSN: 0360-5442]. (SCI & Scopus Indexed Journal with Impact factor: 9) https://doi.org/10.1016/j.energy.2017.02.094
5. Rishabh Dev Shukla & Prof. R.K. Tripathi, "Isolated Wind Power Supply System using Double fed Induction Generator for Remote Areas," Energy Conversion and Management (Publisher: Elsevier), vol. 96, May (2015) pp. 473-489 [ISSN: 0196-8904]. (SCI & Scopus Indexed Journal with Impact factor: 10.4) https://doi.org/10.1016/j.enconman.2015.02.084
6. Rishabh Dev Shukla & Prof. R.K. Tripathi, "A Novel Voltage & Frequency Controller for Standalone DFIG based Wind Energy Conversion System," Renewable and Sustainable Energy Reviews (Publisher: Elsevier), vol. 37, September (2014) pp. 69-89 [ISSN: 1364-0321]. (SCI & Scopus Indexed Journal with Impact factor: 14.982) https://doi.org/10.1016/j.rser.2014.04.069
7. Rishabh Dev Shukla & Prof. R.K. Tripathi, "Dynamic Performance of DFIG based WECS under different Voltage Sag" in International Journal of Chemtech research, Vol.5, No.2, pp. 980-992, April-June 2013. [ISSN: 0974-4290]. https://sphinxsai.com/2013/conf/PDFS%20ICGSEE%202013/CT=63(980-992)ICGSEE.pdf (Scopus Indexed Journal with SJR Ranking Q4)
8. Venktesh Mishra, Rishabh Dev Shukla and Premnath Gupta, "An approach towards Application

of Semiconductor Electronics Converter in Autonomous DFIM based Wind Energy Generation System." International Journal of Smart Grid- ijSmartGrid, Volume 3, No. 2, Year 2019. https://doi.org/10.20508/ijsmartgrid.v3i3.69.g61 (Scopus Indexed Journal with SJR Ranking Q2)

9. Venktesh Mishra, Premnath Gupta, and Rishabh Dev Shukla, "Performance Analysis of Autonomous DFIM based wind energy generation system," International Journal of Electronics and Device Physics, Vol. 3, Issue 1, Year 2019. ISSN: 2631-5041. DOI: https://doi.org/10.35840/2631-5041/1705
10. Rishabh Dev Shukla & Prof. R.K. Tripathi, "Maximum Power Extraction Schemes & Power control in Wind Energy Conversion System," International Journal of Scientific & Engineering Research, Volume 3, Issue 6, June-2012, pp 116-122 [ISSN: 2229-5518] (Impact factor: 3.2). https://www.ijser.org/onlineResearchPaperViewer.aspx?Maximum-Power-Extraction-Schemes-Power-Control-in-Wind-Energy-Conversion-System.pdf
11. Rishabh Dev Shukla, Amrita Singh & S.P. Singh, "Generators For variable Speed wind Energy Conversion Systems: A Comparative Study" in International Journal of Energy Systems Computers and Control, Volume3, No. 2, July-December 2012, pp. 103–117. [ISSN: 0976-6782]
12. Amrita Singh, B. Singh, S. P. Singh & Rishabh Dev Shukla "Enhancement of Performance Parameters of Wind Power Plants: A Technological Literature Survey" in International Journal of Micro and Nano Electronics Circuits and Systems, Volume 5, Issue 1, January-June 2013. [ISSN: 0975-4768].

Conferences:

13. Amritjot Kaur, Manjeet Singh, Rishabh Dev Shukla, Praveen Kumar Mishra, "Adaptive Neural Relaying for Rural Networks Integrated with PV and Wind Distributed Generations" in 5th IEEE International Conference on Sustainable Energy and Future Electric Transportation (IEEE SEFET 2025), organized by the Centre for Energy and Environment Malaviya National Institute of Technology Jaipur, 9-12, July 2025 at MNIT Jaipur, Rajasthan, India. https://doi.org/10.1109/SEFET65155.2025.11255290
14. Aparna Unni, Manjeet Singh, Rishabh Dev Shukla, "Integrating Vehicle-to-Grid Networks in India: Global Frameworks, Domestic Barriers, and Policy Innovations" in 5th IEEE International Conference on Sustainable Energy and Future Electric Transportation (IEEE Sefet 2025), organized by the Centre for Energy and Environment Malaviya National Institute of Technology Jaipur, 9-12, , pp. 1-6, July 2025 at MNIT Jaipur, Rajasthan, India. https://doi.org/10.1109/SEFET65155.2025.11255002
15. S. Vig, R. D. Shukla, Rahul and A. Barwal, "Techniques for Power Quality Improvement: A Comparison of Three Approaches," 2025 Artificial Intelligence and Smart Technologies for Sustainability Conference (AISTS), Rajkot, India, 2025, pp. 1-6, https://doi.org/10.1109/AISTS66100.2025.11232754.
16. Roy, S., Das, D.C., Shukla, R.D., Brahmaiah, V.S., Bhowmik, P., Ghosh, S. (2025). Modeling an Electric Wheelchair with Solar Energy Integration and Enhanced Control. In: Das, S.K., Behera, S.K. (eds) Recent Trends in Intelligent Systems and Next Generation Wireless Communication. IIWCS 2024. Lecture Notes in Networks and Systems, vol 1329. Springer, Singapore. https://doi.org/10.1007/978-981-96-4741-5_13
17. N. Ahmmad, S. Gupta and R. D. Shukla, "WSN-Based IoT System for 5G Communication," 2025 12th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), Noida NCR, India, 2025, pp. 1-5, https://doi.org/10.1109/ICRITO66076.2025.11241770.
18. A. Kaur, M. Singh, D. Purnachandra, and Rishabh Dev Shukla, "Battery Modeling in EV Environment Using Simulink," 2024 International Conference on Sustainable Power & Energy

(ICSPE), 28-29 Nov. 2024, Raigarh, India, year 2024, pp. 1-5, https://doi.org/10.1109/ICSPE62629.2024.10924320

19. S. Hazra, R. D. Shukla, P. K. Roy and S. Metia, "Oppositional Chemical Reaction Optimization Applied to Renewable-Hydro-Thermal Energy Systems," 2024 IEEE 3rd International Conference on Control, Instrumentation, Energy & Communication (CIEC), Kolkata, India, 2024, pp. 331-336, https://doi.org/10.1109/CIEC59440.2024.10468168

20. Subhajit Roy, Rishabh Dev Shukla, Dulal Chandra Das, Nidul Sinha, "Illuminating the Rural Life: The Role of Solar PV in Sustainable Development". 1st International Conference on Advancement in Energy, (Urja Sangam 2023), 18th-20th December 2023, MNNIT Allahabad, Prayagraj.

21. Subhajit Roy, Dr. Dulal Chandra Das, Dr. Nidul Sinha, Rishabh Dev Shukla, "A Systematic Review of Islanding Detection Approaches in Microgrids," 2023 IEEE Silchar Subsection Conference (SILCON) organized by National Institute of Technology Silchar, Assam, During November 3-5, 2023 (SCI/Scopus Indexed Conference) https://doi.org/10.1109/SILCON59133.2023.10405116

22. Subhajit Roy, Rishabh Dev Shukla, Pritam Bhowmik, Kuntal, "Predictive Modeling and Simulation of Vehicle-to-Grid Systems Using Hidden Markov Algorithm and Microgrid Integration, in IEEE International Conference on IoT, Communication & Automation Technology (ICICAT-2023)" organized by Buddha Institute of Technology (BIT), Gorakhpur (Uttar Pradesh), India. During June 23-24, 2023, Gorakhpur, India, pp. 1-6, (SCI/Scopus Indexed Conference) https://doi.org/10.1109/ICICAT57735.2023.10263674

23. Rishabh Dev Shukla, Subhajit Roy, Gautam Sarkar, "Voltage Control in an Autonomous DFIG DC based Wind Energy System," 1st International Conference on Ubiquitous Energy Management for Green Environment (IEEE UEMGREEN 2019), University of Engineering & Management, Kolkata. University Area, Newtown, Kolkata, Kolkata, West Bengal India, September 24-27, 2019]. (SCI/Scopus Indexed Conference) https://doi.org/10.1109/UEMGREEN46813.2019.9221451

24. Rishabh Dev Shukla, & Dr. R.K. Tripathi, "Speed-sensorless Voltage & Frequency Control in Autonomous DFIG based Wind Energy Systems", in Proc, 2014 IEEE Australasian University Power Engineering Conference (AUPEC2014) organized during 28 Sep -01 Oct, 2014 at Curtin University, Perth, WA, Australia. (SCI Indexed Conference) https://doi.org/10.1109/AUPEC.2014.6966609

25. Rishabh Dev Shukla, & Dr. R.K. Tripathi, "A Stand-alone Wind Energy Conversion System Using wound rotor induction machine", in, IEEE International Conference on Power, Energy and Control (ICPEC '13) organized during Feb 06-08, 2013 at PSNA College of Engg. & Technology, Dindigul Tamilnadu. (ISBN: 978-1-4673-6028-9) (SCI Indexed Conference) https://doi.org/10.1109/ICPEC.2013.6527740

26. Rishabh Dev Shukla, & Dr. R.K. Tripathi, "Topologies for Stand-alone DFIG based Wind Energy Conversion System", 2nd IEEE International Conference on Power, Control and Embedded Systems (ICPCES), organized during Nov 15-16, 2012 at MNNIT Allahabad. (ISBN: 978-1-4673-1049-9) (SCI Indexed Conference) https://doi.org/10.1109/ICPCES.2012.6508127

27. Rishabh Dev Shukla & R. K. Tripathi, "Low Voltage Ride Through Ability of DFIG based Wind Energy Conversion Systems-I", in Proc, IEEE Students' Conference on Engineering & Systems (SCES) 2012 organized during March 16-18, 2012 at MNNIT Allahabad. (ISBN: 978-1-4673-0456-6). (SCI Indexed Conference) https://doi.org/10.1109/SCES.2012.6199113

28. Rishabh Dev Shukla & R. K. Tripathi, "Low Voltage Ride Through Ability of DFIG based Wind Energy Conversion Systems-II", in Proc, IEEE Students' Conference on Engineering & Systems (SCES) 2012, organized during March 16-18, 2012 at MNNIT Allahabad. (ISBN: 978-1-4673-0456-6). (SCI Indexed Conference) https://doi.org/10.1109/SCES.2012.6199114

29. Rishabh Dev Shukla, R.K. Tripathi & S. Gupta, "Power electronics applications in wind energy conversion system: A review", in Proc, IEEE International Conference on Power, Control and Embedded Systems (ICPCES), 2010 organized during Nov 29- Dec 01, 2010, at MNNIT Allahabad (ISBN: 978-1-4244-8543-7) (SCI Indexed Conference) https://doi.org/10.1109/ICPCES.2010.5698663

30. S. Gupta, R.K. Tripathi & Rishabh Dev Shukla, "Voltage stability improvement in power systems using facts controllers: State-of-the-art review", in Proc, IEEE International Conference on Power, Control and Embedded Systems (ICPCES), 2010 organized during Nov 29- Dec 01, 2010 at MNNIT Allahabad (ISBN: 978-1-4244-8543-7) (SCI Indexed Conference) https://doi.org/10.1109/ICPCES.2010.5698665

31. Venktesh Mishra, Premnath Gupta and Rishabh Dev Shukla, "A Comparative Study on Instaneous Direct Voltage and Frequency Control in WRIG Based Wind Energy Conversion System with and Without speed Sensor," 4th International Conference On Academic Reseearch In Engineering, Management And Information Technology (ICAREMIT-2019), 16-18 April 2019 at Faculty of Engineering and Technology, M.J. P. Rohilkhand University, Bareilly (U.P.) In association with BMS College of Engineering, Bangalore

32. Subhajit Roy, Rishabh Dev Shukla et al., "Modeling of Solar Powered Electrical Wheelchair with Advanced Control Strategy," in 3rd International Conference On Advances In Computing & Information Technology (IACIT - 2021), 17th – 18th May 2021, at REVA University Banglore India

33. Rishabh Dev Shukla, "State of Art Generators for Wind Energy Conversion System," in National Conference on Recent Trends in Energy Systems (NCRTES-2013), April 5th – 6th, 2013, at Department of Electrical Engineering, Kamla Nehru Institute of Technology (KNIT), Sultanpur 228118 (India)

34. Rishabh Dev Shukla, "Enhancement of Performance Parameters of Wind Power Plant," in National Conference on Recent Trends in Energy Systems (NCRTES-2013), April 5th – 6th, 2013, at Department of Electrical Engineering, Kamla Nehru Institute of Technology (KNIT), Sultanpur-228118 (India)

35. Rishabh Dev Shukla & Sandeep Gupta, "Comparative Study of Generators for Variable Speed WECSs" in National Seminar on Green Energy: Empowering Rural India, April 15th – 16th, 2011, at Rajiv Gandhi Institute of Information Technology (IIIT Allahabad), Amethi (India)

Books:

36. G. Aggarwal, A. Tripathi, H. Goyal Sharma, Rishabh Dev Shukla, "Integrated Technologies in Electrical, Electronics and Biotechnology Engineering," 1st Edition, CRC Press (Taylor & Francis), ISBN 9781032998343, 670 Pages, year 2025. https://doi.org/10.1201/9781003606208

Book Chapters:

37. Rishabh Dev Shukla, R K Tripathi, P Thakur, R C Bansal, "Protection of Renewable Distributed Generation Systems" in Book: Power System Protection in Smart Grid Environment, CRC Press, ISBN-9781138032415, year 2019, 1st Edition. https://doi.org/10.1201/9780429401756-18

38. Rishabh Dev Shukla, Navdeep Singh, Subhajit Roy, "Power Electronics for Solar Photovoltaic System: Configuration, Topologies and Control" in Book: Handbook of Renewable Energy Technology and systems, World Scientific Publishing Co., UK, pp. 235-263, Year 2021. https://doi.org/10.1142/9781786349033_0009

39. Rishabh Dev Shukla, Subhajit Roy, Chapter Title: "Intelligent Control of Electric Vehicle Charging Stations: Harnessing PV Energy and Battery Storage for Energy Optimization" Book Editors: Kumar, A., Yan, D., Bansal, R., & Kumar, P. (Eds.). (2026). Microgrid Handbook: Planning to Practices (1st ed.). CRC Press. https://doi.org/10.1201/9781003219439

40. Rishabh Dev Shukla, Subhajit Roy, Dulal Chandra Das, H. Ravishankar Kamath, Book Chapter

Title: Innovative Approaches to E-Mobility Charging in a Renewable World," in Book: Handbook on New Paradigms in Smart Charging for E-Mobility *Global Trends, Policies and Practices,* 1st Edition - April 1, 2025, Paperback ISBN: 9780323952019, eBook ISBN: 9780323952026. https://doi.org/10.1016/B978-0-323-95201-9.00010-X

41. A B Chattopadhyay, Sunanda Hazra, Rishabh Dev Shukla, "Book Chapter Title: An Alternative Approach to the Modeling of Harmonic Impedance of a Salient Pole Synchronous Generator" in Book: Next Generation Artificial Intelligence Driven Smart and Renewable Energy, 1st Edition - Jan, 2025, ISBN 9781032761565. https://doi.org/10.1201/9781003628279-3
42. Subhajit Roy; Dulal Chandra Das; Nidul Sinha; Rishabh Dev Shukla; Rajesh Kumhar; K. K. Pavan Kumar; V. S. R. Brahmaiah; Ashok Kr Shaw, "Computational Intelligence and IoT in Transforming Agricultural Environmental Control," in Computational Intelligence and Image Processing in Agriculture: Applications and Innovations, IEEE, 2026, pp.213-226, doi: https://doi.org/10.1002/9781394320905.ch14.
43. Madhusudan Narayan, Rishabh Dev Shukla, Ashutosh Sharma, Ashok Kumar Srivastava, "Integrating IoT and NLP in Digital Marketing for Enhanced Real-Time Crisis Response," in Book: Security Paradigms in 6G Smart Cities and IoT Ecosystems, Edition1st Edition, First Published-2025, ImprintCRC Press, Pages12.

    https://www.taylorfrancis.com/chapters/edit/10.1201/9781003564645-23/integrating-iot-nlp-digital-marketing-enhanced-real-time-crisis-response-madhusudan-narayan-rishabh-dev-shukla-ashutosh-sharma-ashok-kumar-srivastava?context=ubx&refId=75198151-9a27-46b9-a7a5-49c73589255a

UG Projects and PG/PHD Thesis SUPERVISION & Examined

- 2 Ph.D Thesis Supervised/Guided, 3 Ph.D Thesis guidance ongoing.
- 2 Ph.D. Thesis Examined/Evaluated
- 18 Number of M. Tech Thesis guided.
- 9 Number of M. Tech Thesis Examined/Evaluated
- 20 Numbers of B. Tech Projects guided.
- 24 Numbers of B. Tech Projects Examined/Evaluated.

PROFESSIONAL CREDENTIALS

- Graduate Aptitude Test in Engineering 2006 Qualified (India)

WINTER/SUMMER SCHOOLS, SHORT-TERM COURSES, FDP & WORKSHOP ATTENDED

- AICTE Training And Learning (ATAL) Academy Online FDP on "Electric Vehicles" from at AICTE Training And Learning (ATAL) Academy with National Institute of Technology Puducherry, duration October 5th–9th, 2020 (One Week)
- Short Term Course on "Stability Analysis, Protection and Control of Microgrid" Department of Electrical Engineering and Department of Instrumentation and Control Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, duration September 25-29, 2020 (One Week)
- AICTE Training and Learning (ATAL) Academy Online FDP on "Control Systems & Sensors Technology" from at AICTE Training and Learning (ATAL) Academy with J.C. Bose University of Science & Technology, YMCA Faridabad, duration September 16-20, 2020 (One Week)
- Online Short-Term Training Program on Control, Guidance, and Estimation of Flight

Vehicles (CGEFV-2020) National Institute of Technology, Kurukshetra, under TEQIP-III Twinning System with Engineering College, Bikaner, duration September 11-16, 2020 (One Week).

- Short Term Training Programme through ICT Mode on Electrical and Electronics Circuit Analysis using MATLAB National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata duration 27/07/2020 to 31/07/2020 One Week
- One-week short-term course on "Design of Microwave & Millimeter Wave Filters" Indian Institute of Technology Kharagpur 30th June -- 6th July, 2019 (One Week)
- "Innovation & Entrepreneurship in a Post-Covid World" Rajendra Mishra School of Engineering Entrepreneurship, Indian Institute of Technology Kharagpur (as NPTEL Special Lecture Series, Co-organized by National Digital Library of India) 22nd June to 29th June 2020,
- Short Term Training Program (STTP) on "Power System Protection National Institute of Technical Teachers' & Training and Research, Kolkata January 13-17, 2020 (One week)
- Short-term course on advancement of Modern Technology in Engineering & Engineering Science" (AMTEES-2018) Quality Improvement Program (QIP) AICTE, NIT Durgapur November 13-19, 2018 (One week)
- Short-Term Training Programme on "Renewable Energy Sources and Emerging Technologies" National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata 09th to 13th July 2018 (One week)
- Short-Term Training Programme for Technical Teachers on "Semiconductor Devices & Solar PV Module" National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata 10th to 14th July 2017 (One week)
- Soft Switched & Resonant DC to DC Converter Topologies & their control Motilal Nehru National Institute of Technology, Allahabad 19th to 23rd December, 2016(One Week)
- Self-Sponsored Short-Term Course on Power Electronics and Its Control (PEC-2015) Motilal Nehru National Institute of Technology, Allahabad 27th to 31st January, 2015 (One Week)
- Self-Sponsored Short-Term Course on "Electric Power Quality: Analysis and Improvement (EPQAI-2015) Motilal Nehru National Institute of Technology, Allahabad 21st to 25th January 2015 (One Week)
- Short Term Course on Industrial and Commercial Power System Analysis: Recommended Practices, Motilal Nehru National Institute of Technology, Allahabad, 1st to 5th July, 2013 (One Week).
- Short Term Course on Modelling and Control of Power Converters, Motilal Nehru National Institute of Technology, Allahabad,24th to 28th July, 2013 (5 days)
- Short Term Course on Computer-Aided Design of Electrical Machines with Power Electronics Applications, Indian Institute of Technology Delhi, 28th–30th January 2010 (3 days).
- Short Term Course on Multimedia Enabled Web Education for Teaching, Indian Institute of Information Technology Allahabad, 21st–27th September 2009 (7 days).
- Faculty Development Programme on Management Information System, Motilal Nehru National Institute of Technology, Allahabad, 22nd June–3rd July, 2009 (12 days)
- Summer School on Expert System and Their Application, Indian Institute of Information Technology Allahabad, 10th –14th June, 2009 (duration: 5 days)
- Three Days Workshop on Virtual Instrumentation & Its Application (WVIA 09), Motilal Nehru National Institute of Technology Allahabad, 18th–20th March, 2009 (3 days).

- Winter School on Geographical Information Systems & Their Application, Indian Institute of Information Technology Allahabad 27th –1st January,2009 (5 days)

VOLUNTEER WORK

- Technical Editor and Reviewer in Different Reputed journals and Conferences like IEEE, Elsevier Science International, etc.

AWARDS AND HONOURS

Certificate of Appreciation for discharging the duties as NAAC and NBA Coordinator 2017

Certificate of Appreciation for discharging the duties as NAAC and NBA Coordinator given by the Chairmar of Budge Budge Institute of Technology Kolkata India-700137

Outstanding Reviewer Certificate of Energy: An International Journal, Elsevier Science International 2017

Outstanding Reviewer Certificate of Energy: An International Journal, Elsevier Science International, Awarded in June 2017.

Outstanding Reviewer Certificate of Renewable & Sustainable Energy Reviews Journal, Elsevier Science 2016

Outstanding Reviewer Certificate of Renewable & Sustainable Energy Reviews Journal, Elsevier Science International, Awarded in November 2016.

PERSONAL DETAILS:

- Father's Name: Shri Priya Shankar Shukla
- Mother's Name: Smt. Gayatri Shukla
- Spouse: Rajshree Shukla
- Children: 2
- Permanent Address: 46, Mori Niranjani Akhara Daraganj Allahabad Uttar Pradesh-211006 (India)
- Phone No: +91-6001956665
- Alternate Mobile No: +917003442704
- Date Of Birth: 08th June, 1984
- Languages Known: Hindi, English

Declaration:

I hereby declare that the details furnished above are true.

Date: 24/12/2025

Place: Chandigarh University, Mohali

Dr. Rishabh Dev Shukla