

Curriculum Vitae

Dr. Rajender Kumar (MIEEE, MIE(I))

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<https://scholar.google.com/citations?user=I9IAu30AAAAJ&hl=en>

<https://www.researchgate.net/profile/Rajender-Beniwal>



CAREER OBJECTIVE

To commence my career in a challenging atmosphere of an esteemed organization, wherein I can utilize my qualifications in order to achieve the highest level of performance, dedication, hard work and proficiency for the betterment of the organization.

ACADEMIC QUALIFICATIONS:

Qualification	Branch	Board/University	Year	Percentage
Ph.D. (Full-Time)	Electrical Engineering	Deenbandhu Chhotu Ram University of Science and Technology Murthal, Sonapat. (A State Govt. Univ., NAAC-A Accredited)	Oct.2014-30Aug.2018	7.67 CGPA in PhD course work
M. Tech.	Electrical & Electronics Engineering	Maharshi Dayanand University, Rohtak.	2011-2013	72 %
B. Tech.	Electrical & Electronics Engineering	Kurukshetra University, Kurukshetra.	2007-2010	65 %
Diploma	Computer Engineering	State Board of Technical Education, Haryana.	2001-2004	59 %

PROFESSIONAL EXPERIENCE

- Presently working as an Assistant Professor (Contract) in Guru Jambheshwar University of Science & Technology, Hisar, from 03/03/2021 (A state Govt. University, NAAC- A Accredited).
- Worked as an Assistant Professor and Head in Sobhasaria Group of Institutions, Sikar from 10/08/2019 to 02/03/2021. (1.5 Year)
- Worked as an Assistant Professor and Head in Laxmi Devi Institute of Engineering and Technology, Chikaani, Alwar from 26/07/2018 to 9/08/2019. (1 Year)
- Worked as an Assistant Professor in Gautam Buddha University, Greater Noida (UP) from 15 Jan 2018 to 25 April 2018 as a visiting faculty.(3.5 Months)
- Worked as Head and Assistant Professor of Electronics and Communication Engineering and Electrical Department at “The Institute of Technology and Sciences, Bhiwani” from Aug. 22, 2013 to Oct 10, 2014. (1 Year 2 Months)

- Worked as Lecturer in Electrical Engineering Department at Rajendera Polytechnic, Sirsa from July 19, 2010 to Aug. 23, 2011. **(1 Year 1 Month)**

Research Exposure:

- **Ph.D** – Full-Time PhD. (Electrical Engg.) from Deenbandhu Chhotu Ram University of Science and Technology Murthal, Sonapat (Haryana) (**A State Government University, NAAC-A Accredited**) under the guidance of Dr. Manish Kumar Saini from Oct 2014 to 30 Aug. 2018.
Title of Ph.D. thesis: *Some Study on Power Quality Events Analysis.*
- **M. Tech.** – M. Tech Trainee at **Central Scientific Instruments Organization (CSIR-CSIO), Chandigarh** under the supervision of **Dr. Amod Kumar (Head & Scientist G)** and Dr. Arindam Chatterjee (Scientist D, Bio-Medical Division), at from Jan 22, 2013 to Jun25, 2013.
Title of M. Tech. thesis: *RFID based Navigation of Autonomous Patient Vehicle (A Prototype Model).*

REVIEWER

- Reviewer of IEEE Access (SCI-IF: 3.745), ISSN: 2169-3536.
- Reviewer of International Transactions on Electrical Energy System (SCI-IF:1.619), ISSN-2050-7038.
- Reviewer of Transactions of the Institute of Measurement and Control (SCI- IF:1.796), ISSN-0142-3312.
- Reviewer of IGI Global book chapter.

ORGANIZER/CORDINATOR

- Organized an International webinar on “An Introduction to Micro-Grids and its Control Techniques” on 16 March 2021 at GJUS&T, Hisar. Speaker Sushil Aggarwal (PhD, National Chiao Tung University, Hsinchu, Taiwan).
- Organized an International webinar on “III As nanostructure for solar cell and GaAs/Sapphire for microwave photonics” on August 27. 2020 at SGI, Sikar. Speaker Dr. Rahul, Research Associate (Post Doc), University of Arkansas (USA).
- Organized an International webinar on “Artificial Intelligence Based Video Analytics” on 18 August 2020 at SGI, Sikar. Speaker Prof. Dr. Supavadee Aramvith, Candidate, 2021-2022 IEEE Region 10 Director-Elect, Member, IEEE Educational Activities Board, Department of Electrical Engineering, Chulalongkorn University, Thailand.
- Organized an International webinar on “Research Methodology: Paper Writing & Online tools” on Friday, 24 July 2020 at SGI, Sikar. Speaker Dr. Anand Nayyar, Researcher and Scientist, ACM Distinguished Speaker, Duy Tan University, Da Nang, Viet Nam.
- Organized a national webinar on “Basics of Research” on Tuesday, 21 July 2020 at SGI, Sikar. Speaker Dr. Manjeet Singh Dahiya, Directorate of Education, Delhi.

- Organized an international workshop entitled “Grid, Micro Grid and Smart Grid” was organized on 13th and 14th March 2020 at Sobhasaria Group of Institutions Sikar.
- Remote center coordinator of NITTTR in the AICTE Recognized Short Term Course on “Electric Vehicle Technology” conducted by Electrical Engineering Department from 26/08/2019 to 30/08/2019 (One Week) at Sobhasaria Group of Institutions Sikar.
- Organized a faculty development program on IOT from 13-15 July 2019 at LIET, Alwar.
- Organized an International conference on Emerging Trends in Electrical and Electronics Engineering on 8-9 March 2019 at LIET, Alwar.

Non-Academic Involvement in Universal Human Values:

1. Coordinator of Universal Human Values cell, Sikar Nodal Center. In Sikar nodal center colleges of Churu, Jhunjnu and Sikar districts comes under Bikaner Technical University, Bikaner.
2. Resource Person (Speaker) of Universal Human Values, BTU, Bikaner.
3. Coordinator of Value education cell at SGI, Sikar.
4. AICTE- NCCIP (National Coordination Committee for Induction Program) Member of the Monthly meetings.
5. Member of AICTE weekly meeting for University coordinators and co-coordinators.
6. Qualified to teach Universal Human Values-I & II.
7. Completed Refresher-1 workshop (Higher Level).

Patent: 1. IPDN- Read Handwriting: Intelligent Process to Read Handwriting Using Deep Learning and Neural Networks, Patent number: 2020103527, Australian Patent granted on 13 Jan. 2021.
2. Environment-friendly Intelligent Connected Vehicle Driven by Advanced Hybrid Renewable Energy and IoT for NH7 Only. Indian Patent Published on 15/10/2021. Application Number: 202111043793.

Publications

Publication in	Published	Accepted	In Press	Submitted
Journal	20	0	0	0
Conference	11	0	0	0
Book Chapter	2	0	0	0
Total	33	0	0	0
Grand Total=33				

BOOK Chapters

1. Chapter named “Introduction to Smart Grid-II” in book entitled *Advances in Smart Grid Power System: Network, Control and Security*, **Publisher: Elsevier (Amsterdam, The Netherlands)**.
2. Chapter named “Introduction to energy storage” in book entitled *Energy Storage System and their Applications in Modern Power System*, **Publisher: WILEY-Scrivener Publishing LLC (New Jersey, USA)**.

JOURNAL PUBLICATIONS (SCI/Scopus)

S. No.	Title of Paper	Authors	Journal	Publication Details
1.	A Critical Analysis of Methodologies for Detection and Classification of Power Quality Events in Smart Grid DOI: 10.1109/ACCESS.2021.3087016.	R. K. Beniwal et al.	<i>IEEE Access (SCI-IF: 3.745)</i> ISSN: 2169-3536	IEEE Access, Vol. 9, pp. 83507-83534, 2021.
2.	Fractionally Delayed Biorthogonal Wavelet based Recognition of Voltage Sag Causes DOI:10.1177/0142331218814292	M. K. Saini and R. K. Beniwal et al.	<i>Transactions of the Institute of Measurement and Control (SCI-IF:1.796)</i> ISSN- 0142-3312	Sage Publication Vol. 41, No. 10, pp. 2851-2863, 2019.
3.	Detection and Classification of Power Quality Disturbances in Wind-Grid Integrated System using Fast Time-Time Transform and Small Residual Extreme Learning Machine Classifier DOI: 10.1002/etep.2519	M. K. Saini and R. K. Beniwal	<i>International Transactions on Electrical Energy System (SCI-IF:1.692)</i> ISSN- 2050-7038	Wiley Publications Vol. 28, No. 4, pp. 1-23, 2018.
4.	Optimum Fractionally Delayed Wavelet Design for PQ Event Detection and Classification DOI: 10.1002/etep.2408	M. K. Saini and R. K. Beniwal	<i>International Transactions on Electrical Energy System (SCI-IF:1.692)</i> ISSN- 2050-7038	Wiley Publications Vol. 27, No. 10, pp. 1-15, 2017.
5.	Recognition of Multiple PQ Issues using Modified EMD and Neural Network Classifier DOI: 10.22068/IJEEE.14.2.188	M. K. Saini and R. K. Beniwal	<i>Iranian J. of Electrical and Electronic Engineering (Scopus)</i> ISSN: 2383-3890	Vol. 14, No. 2, pp. 188-203, 2018.
6.	RFID-based Navigation of	R. K. Beniwal,	<i>Int. J. Medical</i>	InderScience

Autonomous Patient Vehicle for Hospital Management DOI: 10.1504/IJMEI.2014.065426	A. Chatterjee, S. Verma and Amod Kumar	<i>Engineering and Informatics (Scopus)</i> ISSN-1755-0661, 1755-0653	Vol. 6, No. 4, pp. 281-288, 2014.
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UGC Listed Journal Publications

S. No.	Title of Paper	Authors	Journal	Publication Details
7.	Generation of Single and Multiple Power Quality Disturbances using MATLAB/SIMULINK	R. K. Beniwal	<i>International Journal of Engineering, Science and Mathematics</i> ISSN: 2320-0294	Vol. 6 No. 4, pp. 10-15, 2017
8.	Analysis of Electricity Supply in the Distribution Network of Power Sector	R. K. Beniwal, A. Aggarwal, R. Saini and S. Saini	<i>International Journal of Engineering Sciences & Research Technology</i> ISSN: 2277-9655	Vol. 7 No. 2, pp. 404-412, 2018
9.	Detection of Anomalies in the Quality of Electricity Supply	R. K. Beniwal, A. Aggarwal, R. Saini and S. Saini	<i>International Journal on Future Revolution in Computer Science & Communication Engineering</i> ISSN: 2454-4248	Vol. 4, No. 2, pp. 6-10, 2018
10.	Review of Detection and Classification Techniques for Power Quality Events	R. K. Beniwal, R. Kumar, R. Saini	<i>International Journal on Future Revolution in Computer Science & Communication Engineering</i> ISSN: 2454-4248	Vol. 4, No. 2, pp. 213-216, 2018
11.	A Review of Pros and Cons of Electric Vehicles in Smart Power System	R. K. Beniwal, S. Saini, R. Kumar, R. Paul	<i>International Journal of Engineering, Science and Mathematics</i> ISSN: 2320-0294	Vol. 7, No. 2, pp. 323-328, 2018
12.	Analysis of Techniques used in Demand Side Load Management	R. K. Beniwal, R. Saini, R. Paul, R. Kumar,	<i>International Journal of Engineering & Scientific Research</i> ISSN: 2347-6532	Vol. 6, No. 3, pp. 90-95, 2018
13.	Modelling for Improved Cyber Security in Smart Distribution System	S. Saini, R. K. Beniwal, R. Kumar, R. Paul and S. Saini	<i>International Journal on Future Revolution in Computer Science & Communication Engineering</i> ISSN:	Vol. 4, No. 2, pp. 56-59, 2018

			2454-4248	
14.	A Review on Speech Recognition Methods	R. Paul, R. K. Beniwal, R. Kumar, R. Saini	<i>International Journal on Future Revolution in Computer Science & Communication Engineering</i> ISSN: 2454-4248	Vol. 4, No. 2, pp. 292-298, 2018
15.	Management of the Power Output of Photovoltaic Array and Fuel Cell	R. Paul, R. K. Beniwal, R. Kumar, A. Aggarwal	<i>International Journal on Future Revolution in Computer Science & Communication Engineering</i> ISSN: 2454-4248	Vol. 4, No. 2, pp. 285-291, 2018
16.	Non-technical Losses in Power Distribution System	A. Aggarwal, R. K. Beniwal, R. Kumar, V. Kumar	<i>International Journal of Engineering, Science and Mathematics</i> ISSN: 2320-0294	Vol. 7, No. 2, pp. 329-338, 2018
17.	Structure of Power Sector in Haryana after Reforms	A. Aggarwal, R. K. Beniwal, R. Saini, S. Saini	<i>International Journal of Engineering & Scientific Research</i> ISSN: 2347-6532	Vol. 6, No. 3, pp. 116-122, 2018
18.	Economical Technique For Voltage Stabilization In Wind-Diesel Hybrid Microgrid	R. Kumar, R. K. Beniwal, A. Aggarwal, M. Saini	<i>International Journal of Engineering & Scientific Research</i> ISSN: 2347-6532	Vol. 6, No. 3, pp. 107-118, 2018
19.	Review of Voltage Management in Local Power Generation Network	R. Kumar, A. Aggarwal, R. K. Beniwal, S. Saini, R. Paul and S. Saini	<i>International Journal of Engineering Sciences & Research Technology</i> ISSN: 2277-9655	Vol. 7 No. 2, pp. 391-403, 2018
20.	Importance of Organizational Culture & its Different Dimensions	R. Paul, R. Kumar, A. Aggarwal, R. K. Beniwal	<i>International Journal of Research in Economics and Social Sciences (IJRESS)</i> ISSN: 2249-7382	Vol. 8, No. 2, pp. 188-197, 2018

CONFERENCE PUBLICATIONS

S. No.	Title of Paper	Authors	Details
1.	Matched Filter Design Using Dynamic Histogram for Power Quality Events Detection. https://doi.org/10.1007/978-981-	R. K. Beniwal et al.	International Conference on Innovative Computing and Communications (ICICC-2020) held at Shaheed Sukhdev College of Business Studies, Rohini Sector 16, New

	15-5148-2_80		Delhi on 22-23 Feb 2020 pp. 921-935. (<i>Springer</i>) Online ISBN 978-981-15-5148-2
2.	Analysis of PQ disturbances in renewable grid integration system using Non-parametric spectral estimation approach. https://doi.org/10.1007/978-981-15-6067-5_17	R. K. Beniwal et al.	International Conference on Innovations in Computational Intelligence and Computer Vision (ICICV-2020) held at Manipal University Jaipur on 17-19 Jan 2020, pp. 141-149. (<i>Springer</i>) Online ISBN 978-981-15-6067-5
3.	Design of Modified Wavelet Design Using Lagrange Interpolation https://doi.org/10.1109/CIPECH.2016.7918775	R. K. Beniwal et al.	2 nd <i>IEEE International Conference on Innovative Applications of Computational Intelligence on Power, Energy and Controls with their impact on Humanity (CIPECH-16)</i> at KIET Ghaziabad held on Nov. 18-19, 2016, pp. 264-268. ISBN : 978-93-86256-14-0.
4.	Critical Analysis of Power Quality Issues in Wind-Grid Integration	R. K. Beniwal et al.	<i>International Conference on Advanced Computing & Communication Technologies (ACCT 2016)</i> , held at Rohtak on Sept. 3-4, 2016, pp. 315-322. ISBN: 978-981-11-0783-2
5.	Recognition of Power Quality Disturbances in Wind-Grid Integration by Using TT-transform	R. K. Beniwal et al.	<i>International Conference on Advanced Computing & Communication Technologies (ACCT 2016)</i> , held at Rohtak on Sept. 3-4, 2016, pp. 323-330. ISBN: 978-981-11-0783-2
6.	Detection of Voltage Sag Causes by using Legendre Wavelet Transform	R. K. Beniwal et al.	<i>International Conference on Advanced Computing & Communication Technologies (ACCT 2016)</i> , held at Rohtak on Sept. 3-4, 2016, pp. 308-314. ISBN: 978-981-11-0783-2
7.	Signal Processing Tool& Artificial Intelligence for Detection of Voltage Sag	R. K. Beniwal et al.	<i>International Conference on Advanced Computing & Communication Technologies (ACCT 2016)</i> , held at Rohtak on Sept. 3-4, 2016, pp. 331-337. ISBN: 978-981-11-0783-2
8.	Applications of FACT Devices in Power Systems for Performance Enhancement	R. K. Beniwal	<i>AICTE sponsored National Conf. on Emerging Trends in Electronics and Communication (ETEC-2013)</i> at BRCMCET, Bahal held on Oct. 25-26, 2013, pp. 147-151. ISBN: 978-93-82880-81-3
9.	Sag and swell mitigation	R. K.	<i>AICTE sponsored Int. Conf. on Recent</i>

	techniques by DVR using Matlab/simulink	Beniwal et al.	<i>Trends in Computing, Mechatronics and Communication (RTCMC-2012)</i> at Om Institute of Technology & Management, Hisar held on 25-26 Feb. 2012, pp. 320-323. <i>ISBN: 978-81-923446-0-7</i>
10.	Sag Mitigation Technique using DVR using Matlab/Simulink	R. K. Beniwal et al.	<i>National Conference on Recent Trends in Electrical and Electronics Engineering, (RTEE-2010)</i> at HCTM, Kaithal on 14, 15 May 2010, B-23 pp. 1-6.
11.	Custom Device D-Statecom for Sag Mitigation using Matlab/Simulink	R. K. Beniwal et al.	<i>National Conference on Recent Trends in Electrical and Electronics Engineering, (RTEE-2010)</i> at HCTM, Kaithal on 14, 15 May 2010, C-21 pp. 1-7.

SUBJECTS OF INTEREST

- Electrical Technology
- Power System-1
- Nonconventional Energy Resources
- Power System Quality
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RESEARCH GUIDENCE

M. Tech thesis entitled “Optimization and Simulation of Hybrid Systems and its Application on Isolated Load” by Nisha (LIET, Alwar) Dec. 2019.

M. Tech thesis entitled “Analysis and Optimization of Economic Load Dispatch using Soft Computing Techniques” by Harsh Shrivastava (SGI, Sikar) Jan 2020.

SHORT TERM COURSE/WORKSHOP ATTENDED

S. No.	Title of Course	Organizing Institute	Duration
1.	Course on Programmable Logic Controller (PLC)	Haryana College of Technology & Management, Kaithal.	Two Days Nov. 11-12, 2009.
2.	National workshop on Modeling and Simulation using Simulink with Engineering Applications (MSSEA-2012)	BRCM College of Engineering and Technology, Bahal.	One day Oct. 13, 2012.
3.	National workshop on Advanced DSP with MATLAB and its Applications	BRCM College of Engineering and Technology, Bahal.	Two Days Aug. 23-24, 2013.
4.	ISTE Workshop on Computer Programming	IIT Bombay	Two week May 20 to June

			21, 2014.
5.	Recent Research Trends in Industrial and manufacturing Engineering	Deenbandhu Chhotu Ram University of Science and Technology, Murthal	One week April 13-17, 2015.
6.	Machine Learning for Medical Image Analysis	IIT Mandi	One week June 24-28, 2015.
7.	Soft Computing –II	Deenbandhu Chhotu Ram University of Science and Technology, Murthal	One week Sept. 7-11, 2015
8.	Hands on training on LabVIEW	Hindustan College of Science and Technology, Mathura	Oct. 29-30, 2015.
9.	Quality Assurance in Engineering and Technology Education	Deenbandhu Chhotu Ram University of Science and Technology, Murthal	One week Dec. 21-25, 2015.
10.	Road Safety Issues and Design of Forgiving Roads	Deenbandhu Chhotu Ram University of Science and Technology, Murthal	One day Jan. 7, 2016.
11.	Signal and Image Processing: Issues and Techniques	Deenbandhu Chhotu Ram University of Science and Technology, Murthal	One week April 18-22, 2016.
12.	Skill Development Program on Solar Water Heating Systems	Deenbandhu Chhotu Ram University of Science and Technology, Murthal	Three days April 28-30, 2016.
13.	Recent Innovation in cloud Computing and Network Technologies	Deenbandhu Chhotu Ram University of Science and Technology, Murthal	One week May 30- June 3, 2016.
14.	Power Quality in Deregulated Power system with MATLAB applications	NIT Hamirpur	One week June 6-11, 2016.
15.	Recent Trends in Electrical Power and Energy System	Deenbandhu Chhotu Ram University of Science and Technology, Murthal	One week July 18-22, 2016.
16.	Multi-Criteria Decision Making Methods and Analysis	Deenbandhu Chhotu Ram University of Science and Technology, Murthal	One week Sept. 9-13, 2016.
17.	Advances in Manufacturing: Challenges & Opportunities	Deenbandhu Chhotu Ram University of Science and Technology, Murthal	One week Nov. 18-22, 2016.
18.	Hands on Mathematical Modelling and Software Simulation for Power System Engineering	SVNIT Surat	Two weeks Nov. 30 to Dec. 10, 2016.
19.	Intellectual Property Protection and Management	Deenbandhu Chhotu Ram University of Science and	One day Jan. 16, 2017.

		Technology, Murthal	
20.	Non-Linear Adaptive Signal Processing applications (GIAN)	NIT Goa	One week March 13-18, 2017
21.	Signal & Image Processing : Issues, Challenges & Techniques	Deenbandhu Chhotu Ram University of Science and Technology, Murthal	Two weeks Jan 1-12, 2018.
22.	Power Electronic Converters in Grid Integration of Renewable Energy Sources	MNIT Jaipur	One week, 27 Dec. to 31 Dec., 2019.
23.	Patent Searching, Drafting And Filing (Online Mode)	PANIMALAR INSTITUTE OF TECHNOLOGY, Bangalore.	One week, 29 May to 02 June 2020.
24.	Challenges In Grid Interconected Power System (Online Mode)	NIT, Kurukshetra.	One week, 22 to 26 June 2020.
25.	Green Energy: The Energy of Future	Swami Keshvanand Institute of Technology, Jaipur.	7 to 11 Sept., 2020.

Certification Courses

1. “Introduction to solar cells” an online non-credit course authorized by Technical University of Denmark (DTU) and offered through Coursera.
2. “Wind Energy” an online non-credit course authorized by Technical University of Denmark (DTU) and offered through Coursera.

PROJECTS UNDERTAKEN

Minor Project: “Power Quality Improvement by DVR Using MATLAB/SIMULINK” from Aug. to Dec. 2009 during B.Tech Course.

Major Project: “Hardware Implementation of Dynamic Voltage Restorer for Power quality Improvement” from Jan. to May 2010 during B.Tech Course.

INDUSTRIAL TRAINING during B.TECH

- Six weeks training at *Wipro*, Gurgaon from July-Aug, 2008
- Six weeks training at *Osram India Pvt.Ltd.*, Sonipat from July-Aug, 2009

EXTRA CURRICULAR ACTIVITIES

1. Member of Anti Ragging committee at LIET, Alwar during 2018-2019.
2. Member of NBA committee at LIET, Alwar during 2018-2019.
3. Worked as Co-Convener of Student Council of All Boys Hostel at DCRUST, Murthal, Sonapat for 2016-17 vide letter no. DCRUST/CW (B)/1637 dated 22-08-2016.

4. Worked as Convener of Student Council of All Boys Hostel at DCRUST, Murthal, Sonapat for 2015-16 vide letter no. DCRUST/CW (B)/1334 dated 11-02-2016.
5. Working as Secretary of Mess Committee (Hostel No. 4) from Aug 2017 onwards.
6. Worked as General Secretary of Boys Hostel No. 4 for the session of 2016-17.
7. Worked as Secretary of Hostel and Mess Committee for the session of 2015-16.
8. Got 2nd position in 4x400 Relay race in Inter-Poly Sports & Athletics (March, 2004) at Govt. Polytechnic Sirsa.
9. Member of Discipline cell in VENATIO 2008, 2009 and 2010(A National Level Technical Symposium) at HCTM, Kaithal.

PERSONAL DETAILS

Father's Name: Sh. Shankar Lal
Mather's Name: Smt. Savitri Devi
Date of Birth: Oct 16, 1984
Marital Status: Married
Languages known: Hindi, English and Punjabi

Declaration: I do hereby declare that the information furnished above is true to the best of my knowledge.

Salary Expected: As per norms

Date:

(Dr. Rajender Kumar)

Place: