

RESUME

Kuldeep Sahay, Ph.D.
Professor
Electrical Engineering Department
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(1) Academic Qualification

Ph.D., (Power System), G.B. Technical University, Lucknow
M.Tech. (Energy Studies), 1st Division, IIT, Delhi.
B.E. (Electrical Engineering), 1st Division, MMMEC, Gorakhpur.

(2) Work Experiences [Total work experience: 25 years]

(a) Important Administrative Responsibility

Sl. No.	Post	Date from	Date to	Responsibility
1	Head, Department of Electrical Engineering IET Lucknow	10-11-2015	12-04-2019	Academic and Administrative Management of Department
2	Coordinator, UPSEE-2017 (Uttar Pradesh State Entrance Examination)	16-11-2016	25-11-2017	Conduction and Counseling of Entrance Examination for B.Tech., MCA, MBA and other Examination
3	Dean Student Welfare Dr. APJ Abdul Kalam Technical University, Lucknow	18-08-2015	Nov. 2016	Managing Students welfare related work(Started state level Sports, Technical, Arts and Cultural Fest)
4	Chairman, ISSACC, IET Lucknow	25-06-2015	25-05-2017	Managing Student's Extra and Co-curricular Activities
5	Co-coordinator, IPIU (TEQIP-II), IET Lucknow	01-05-2016	31-07-2017	Preparing and Execution of Project
6	Chairman, ISSACC, IET Lucknow	07-01-2012	26-02-2014	Managing Student's Extra and Co-curricular Activities
7	Co-coordinator, TEQIP-II, IET Lucknow	Jan. 2010	July 2014	Preparing and Execution of Project
8	Head, Department of Electrical Engineering, IET Lucknow	10-11-2009	09-11-2012	Academic and Administrative Management of Department
9	Head, Department of Electrical Engineering, IET Lucknow	10-11-2003	12-11-2006	Academic and Administrative Management of Department
10	In-charge, Electrical Maintenance, IET Lucknow	20-08-2003	19-8-2004	Electrical Maintenance of Institute
11	Deputy Dean Academics, IET Lucknow	Sept. 2002	30-10-2003	Managing Academic Activities of Institute

(b) Position Held

Sl.No.	Designation	Date from	Date to	Name of Institute
1	Professor	07-12-2011	Till date	IET Lucknow
2	Associate Professor	21-06-2006	06-12-2011	IET Lucknow
3	Assistant Professor(Reader)	21-06-2003	20-06-2006	IET Lucknow
4	Lecturer	25-06-1996	20-06-2003	IET Lucknow
5	Lecturer	13-04-1996	24-06-1996	Government Polytechnic, Nainital, UP
6	Site Engineer	01-01-1994	31-03-1996	Ess Jay Trading Corporation, Lucknow

(3) Awards and Appreciations

- a) Shiksha Bharti Award-2014, IAF New Delhi.
- b) Appreciation Letter by Honourable Vice Chancellor, U.P. Technical University, Lucknow for Extraordinary Efforts making “Encore 2013” successful.
- c) Certificate of Appreciation by United Nations Information Centre for India and Bhutan (UNIC), New Delhi, for Outstanding Contribution to the Success of “The All India Easy Writing Event 2012”.
- d) Appreciation by President, European Research Council, Brussels, Belgium for Assisting as an external referee of ERC starting Grant 2011 project Proposals.
- e) Rashtriya Gaurav Award-2011, IIFS New Delhi.
- f) Shikha Rattan Puraskar-2011, IIFS New Delhi.

(4) Fellow/Membership of Professional Bodies

- a) ISTE LM 102254
- b) IETE F-237229
- c) IE(I) F-1194935

(5) Research Project

Completed Project Entitled “**Condition Monitoring, Fault Diagnosis in the induction Motor by Transformative Techniques**” sanctioned by Council of Science & Technology, UP Worth **Rs.7, 28,000/-** , as **Principal Investigator**.

(6) Publications

(a) Book Publication

- (i) “Basic Electrical Engineering” Kuldeep Sahay by New Age International Publishers, New Delhi [ISBN:978-81-224-1836-1].
- (ii) “Diagnosis of Broken Rotor Bar in Inverter Fed Induction Motor Drives”, Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, Lambert Academic Publishing, Germany [ISBN: 978-3-659-77100-2].
- (iii) “Health Monitoring of Induction Motor Using DSP Techniques”, Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, Lambert Academic Publishing, Germany [ISBN: 978-613-9-83951-3].

(b) Research Publication

1.	Kamal Singh and Kuldeep Sahay, "Effect of Snubber Circuit for Efficiency Improvement in SEPIC Converter", European Journal of Advances in Engineering and Technology, 2018, 5(3),pp 192--197, March 2018 [ISSN: 2394 - 658X]
2.	Kamal Singh and Kuldeep Sahay, "A Novel Topology for the Enhancement of SEPIC Converter using Snubber Circuit", International Journal of Advances in Engineering & Technology (IJAET), Volume 11 Issue 1, pp. 35-45, February 2018.[ISSN 2231-1963]
3.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, “Rotor Broken Bar Fault Detection of Induction Motor by Advanced MCSA Technique”, Journal of Electrical and Electronics Engineering, Vol. 10, No.2, pp. 45-50, SJR: 0.14, October 2017 [ISSN: 2067-2128].
4.	V.K. Chaudhary, Kuldeep Sahay, “Behavior of DFIG Based Wind Energy Conversion System Due to Short Circuit of DC-Link Capacitor”, International Journal of Scientific Research in Science, Engineering and Technology, Vol.3, Issue 6, October 2017 pp. 8130-819,[IF:5.621 ISSN: 2394-4099].
5.	V.K. Chaudhary, Kuldeep Sahay, “Performance Analysis of Doubly Fed Generator Coupled with Wind Turbine Using Stator Voltage Oriented Control-An Overview”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol.6, Issue 9, September 2017 pp. 6890-6898,[IF:5.621 ISSN: 2278 – 8875].
6.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, “ Stator Inter-turn Fault Detection in Inverter Fed Induction Motor Drives”, International Journal of Applied Power Engineering, Vol.6, No.2, pp. 90-103, August 2017[ISSN: 2252-8792].
7.	Bal Mukund Sharma, Kuldeep Sahay, “Effect of MPPT Techniques on the THD Value of Five-Level

	Cascaded H-Bridge Converter for Photovoltaic Application” International Journal of Emerging Engineering Research and Technology, Volume 5, Issue 7, 2017, PP 1-10 ISSN 2349-4395 (Print) & ISSN 2349-4409 (Online), Sryahwa Publication.
8.	Bal Mukund Sharma, Kuldeep Sahay, “New Trends in Solar Energy Modeling and Developing a Relation for Performance of Solar Radiation”, European Journal of Advances in Engineering and Technology, Vol.4, No.9, pp.649-656, 2017[IF: ISSN: 2394-658X].
9.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, “Early, Detection of Rotor Broken Bar Fault in Inverter Fed Induction Motor Drive by Wavelet Transform”, International Journal of Control Theory & Applications, Vol.10, No.37, July 2017[SJR: 0.17, ISSN: 0974-5572].
10.	Jayanta Kumar Sahni, Kuldeep Sahay, Satyendra Singh, "A FFT Based Approach To Detect The Bearing and Rotor Fault in A Single Phase Induction Motor on Load", i-manager's Journal on Digital Signal Processing, Vol. 5 No. 2, pp 15-21, April - June 2017[ISSN: 2321-7480].
11.	V.K. Chaudhary, Kuldeep Sahay, Rakesh Sharma, “Modeling, Simulation & Dynamic Performance Analysis of DFIG Wind Energy Conversion System Using SVOC under Dynamic Load & Faulty Condition”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol.6, Issue 6, June 2017 pp. 4383-4393, [IF: 5.621 ISSN: 2278 – 8875].
12.	Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, “Modeling, Simulation and Harmonic Reduction of Five Level Diode Clamped Inverter fed Induction Motor Drive”, i-manager's Journal on Circuits and Systems Vol.5, No.2, pp.23-29 (March-May 2017 issue)[IF: ISSN: 2322-035X].
13.	Bal Mukund Sharma, Kuldeep Sahay, “Effect of Perturb & Observe Algorithm and Incremental Conductance Algorithm on the Performance of Cuk Converters for Photovoltaic Application”, European Journal of Advances in Engineering and Technology, Vol.4, No.7, pp. 516-523, 2017[IF: ISSN: 2394-658X].
14.	Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, “Stator Inter-turn Fault Detection in Inverter Fed Induction Motor Drives”, International Journal of Applied Power Engineering, Vol.6, No.2, pp. 90-103, August 2017[IF: ISSN: 2252-8792].
15.	Aakash Kumar Seth, Kuldeep Sahay, “Microgrid and its Adaptive Protection”, i-Manager's Journal on Circuits & Systems Vol.5, No.1, pp.23-29 (Dec 2016-Feb 2017)[IF: ISSN Online: 2322-035X]
16.	Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, “Early, Detection of Rotor Broken Bar Fault in Inverter Fed Induction Motor Drive by Wavelet Transform”, International Journal of Control Theory & Applications, Vol.10, No.37, July 2017[IF: 0.17, ISSN: 0974-5572].
17.	Jayanta Kumar Sahni, Kuldeep Sahay, Satyendra Singh, “Comparative Study of Induction Motor Stator Current Using FFT and Wavelet”, i-manager's Journal on Digital Signal Processing, Vol.4, No.4, pp. 1-7, Dec.2016[IF: ISSN: 2321-7480].
18.	Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, “Modeling and Analysis of Open and Closed Loop Induction Motor fed PWM Inverter”, International Journal of Electronics and Electrical Engineering, Vol.4, No.6, pp. 474-481, Dec. 2016[IF: ISSN 2301-380X].
19.	Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, Approximation Signal: An Efficient Approach to Diagnose Induction Motor Faults in Inverter Fed Induction Motor Drives” i-manager's Journal on Instrumentation and Control Engineering, Vol.4, No.4, pp.1-15, Aug-Oct 2016. [IF: 0.276, ISSN: 2321-1148].
20.	Balmukund Sharma, Kuldeep Sahay, " Effect of Maximum Power Point Tracker Techniques on the Performance of Buck Converter ", Proc. National Conference on Emerging Trends in Electrical & Electronics Engineering(NCETEEE-2016), 19-20 Aug, 2016, IET, Lucknow.
21.	Kamal Singh, Kuldeep Sahay, " A Review on Different Types of Snubber Circuits used in DC-DC converter", Proc. National Conference on Emerging Trends in Electrical & Electronics Engineering(NCETEEE-2016), 19-20 Aug, 2016, IET, Lucknow.
22.	Jayant Kumar Sahni, Satyendra Singh, Kuldeep Sahay, " Experimental Analysis of Single Phase Induction Motor Current on no load using MCSA", Proc. National Conference on Emerging Trends in Electrical & Electronics Engineering(NCETEEE-2016), 19-20 Aug, 2016, IET, Lucknow.
23.	Hemant Kumar Yadav, Kuldeep Sahay, " A Comparative Analysis of Sepic Converter with and without Snubber Circuit", Proc. National Conference on Emerging Trends in Electrical & Electronics Engineering(NCETEEE-2016), 19-20 Aug, 2016, IET, Lucknow.
24.	Kamal Singh, Kuldeep Sahay, " Metro Rail Projects in India: An Overview", Proc. National Conference on Emerging Trends in Electrical & Electronics Engineering(NCETEEE-2016), 19-20

	Aug, 2016, IET, Lucknow.
25.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri , Transient Model and Detection of Stator Inter-Turn Fault in Inverter Driven Induction Motor Drives by Time Domain Technique", i-manager's Journal on Electrical Engineering, Vol. 9, No.3, pp. 20-31, Jan-Mar 2016, [Print ISSN 0973-8835, E-ISSN 2230-7176].
26.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, "Early, Diagnosis of Airgap Eccentricity Fault In the Inverter Driven Induction Motor Drives by Wavelet Transform, Journal of Electrical Engineering, Romania, Vol.16, No.2, pp.95-103, 2016 [IF: ISSN: 1582-4594].
27.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, "Early, Diagnosis of Stator Inter-turn Fault in Inverter Driven Induction Motor by Wavelet Transform", IEEE First International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES 2016), Delhi Technological University, 4-6 July 2016.
28.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, "Air-Gap Eccentricity Fault Detection in the Transient Condition for Inverter Driven Induction Motor Drives", Proc. on IEEE Int. Conf. on Circuits, Power and Computing Technologies(ICCPCT-2016), Noorul Islam Centre for Higher Education, Kumaracoil on the 18th - 19th of March 2016.
29.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, "Early, Diagnosis of Bearing Fault in the Inverter Driven Induction Motor by Wavelet Transform", Proc. on IEEE Int. Conf. on Circuits, Power and Computing Technologies(ICCPCT-2016), Noorul Islam Centre for Higher Education, Kumaracoil on the 18th - 19th of March 2016.
30.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, "Detection of Bearing Fault in Inverter Fed Induction Motor by Transformative Techniques", IEE int. Conf. INDICON-2015, 17-20 December, Jamiya Miliya, New Delhi.
31.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, "Stator Inter-turn Fault Detection in Inverter Fed Induction Motor Drives", IEEE Int. Conf. on Student Conference on Engineering & System (SCES-2015), 06-08 November, MNNIT, Allahabad.
32.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri (2015). Diagnosis of Air-Gap Eccentricity Fault for Inverter Driven Induction Motor Drives in the Transient Condition. i-manager's Journal on Instrumentation and Control Engineering, 3(1), Nov-Jan 2015, [IF: Print ISSN 2321-113X, E-ISSN 2321-1148], pp. 30-41.
33.	Khadim Moin Siddiqui, Kuldeep Sahay and V. K. Giri (2015). Bearing Fault Detection in PWM Inverter Fed Induction Motor Drives by Transformative Techniques. i-manager's Journal on Electrical Engineering. 8(4) Apr-Jun 2015, [Print ISSN 0973-8835, E-ISSN 2230-7176], pp. 7-18.
34.	Kamal Singh and Kuldeep Sahay (2015). Review and Study of Different Topologies in Sepic Converter. i-manager's Journal on Electrical Engineering. 8(4) Apr-Jun 2015, [IF: Print ISSN 0973-8835, E-ISSN 2230-7176], pp. 34-43.
35.	Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, "Modeling and Simulation of Variable Speed Squirrel Cage Induction Motor Drives", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 4, No.7, 2014, pages 6720-6728.[IF: July 2015,ISSN 2278 – 8875]
36.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, "Performance and Analysis of Space Vector PWM Inverter Fed Squirrel Cage Induction Motor Drives", i-manager's Journal on Electrical Engineering, Vol. 8, No. 3,pp. 18-30, Jan-March, 2015.
37.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, " Rotor Broken Bar Fault Detection in Induction Motor Using Transformative Techniques", Journal of Electrical Engineering, Vol.15, No.1, pp. 135-141, March,2015.
38.	Khadim Moin Siddiqui, Kuldeep Sahay and V. K. Giri , Modeling and Detection of Bearing Fault in SPWM Inverter Fed Induction Motor Drives by Transformative Techniques, Proc. National Conference on Recent Advances in Electrical Engineering (RAEE-15) April 25-26, 2015 MMM University of Technology, Gorakhpur (U.P.) INDIA .
39.	Ritul Agrawal and Kuldeep Sahay, "Review on Smart Grid: A Security Perspective", Proc. National Conference on Recent Advances in Electrical Engineering (RAEE-15) April 25-26, 2015 MMM University of Technology, Gorakhpur (U.P.) INDIA.
40.	Kamal Singh, Kuldeep Sahay, "Review And Study of Different Topologies in SEPIC Converter", Proc. National Conference on Recent Advances in Electrical Engineering (RAEE-15) April 25-26,

	2015 MMM University of Technology, Gorakhpur (U.P.) INDIA.
41.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, "Bearing Fault Detection in PWM Inverter Fed Induction Motor Drives By Transformative Techniques", i-manager's Journal on Electrical Engineering, Vol. 8, No.4, pp. 7-18, April-June, 2015.
42.	Khadim Moin Siddiqui, Kuldeep Sahay and V.K. Giri, "Bearing Fault Detection in PWM Inverter Fed Induction Motor Drives by Transformative Techniques", Proc. I-manager's Int. Conf. Conference on Engineering and Technologies (IICET), Trivandrum, Kerala, INDIA, 10-11 April, 2015.
43.	Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, "Modelling and Detection of Bearing Fault in SPWM Inverter Fed Squirrel Cage Induction Motor Drives", The ICCPCT-2015 International Conference on Circuits, Power and Computing Technologies. Noorul Islam Centre for Higher Education, Kumaracoil on the 19th - 20th of March 2015.
44.	Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, "Performance and Analysis of Direct Torque Control Induction Motor FED PWM Inverter Drives", International Electrical Engineering Journal (IEEJ), Vol.06 (2015), No.19, PP.1716-1726, 2015. [ISSN 2078-2365]
45.	Bal Mukund Sharma and Kuldeep Sahay, A Comprehensive Survey of Maximum Power Tracker Techniques for Photovoltaic System. i-manager's Journal on Electrical Engineering. Vol. 8, No.1, pp. 39-55, Jul-Sep, 2014.
46.	Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, "Modeling and Detection of Bearing Fault In PWM Inverter Fed Induction Motor Drives", Journal on Electrical Engineering, Vol. 8, No. 1. pp.1-13 [July–September 2014, ISSN 0973 - 8835]
47.	Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, "Performance and Analysis of Switching Function Based Voltage Source Inverter Fed Induction Motor", International Electrical Engineering Journal (IEEJ), Vol.05 (2014), No. 9, PP.1545-1552. [ISSN: 2078-2365]
48.	Rakesh Sharma, Kuldeep Sahay, Satyendra Singh, "System Effects of Varying Load on DC- Link Voltage in DFIG Based Wind Energy Conversion", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 3, Issue 5, pages 9441-9452.[May 2014, ISSN: 2320 – 3765]
49.	Rakesh Sharma, Kuldeep Sahay, Satyendra Singh, "Modeling and Simulation of Fixed and Variable Speed of DFIG Wind System", International Journal of Recent Development in Engineering and Technology, Volume 2, Issue 5, pages 52-60 [May 2014, ISSN: 2347 - 6435]
50.	Bal Mukund Sharma , A. N. Tiwari, Kuldeep Sahay, "Maximum Power Tracking for Photovoltaic System an Overview", National Conference on Emerging Trends in Electrical Systems (ETES-14) , at M.M.M. University of Technology Gorakhpur, March 28-29 ,2014.[ISBN]
51.	Bal Mukund Sharma , A. N. Tiwari, Kuldeep Sahay, "Design and Simulation of Photovoltaic Module in MATLAB", National Conference on Emerging Trends in Electrical Systems (ETES-14) , at M.M.M. University of Technology Gorakhpur, March 28-29 ,2014.[ISBN]
52.	Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, "Simulation And Transient Analysis Of PWM Inverter Fed Squirrel Cage Induction Motor Drives", Journal on Electrical Engineering, Vol. 7 1, No. 3 1.[January–March 2014,ISSN 0973 - 8835]
53.	Khadim Moin Siddiqui, Kuldeep Sahay, V.K. Giri, "Health Monitoring and Fault Diagnosis in Induction Motor-A Review", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 3, No.1, 2014, pages 6549-6565.[January 2014,ISSN 2278 – 8875]
54.	Anumeha Awasthi, Kuldeep Sahay, Anuj Kumar Yadav , "Simulation and design of wind-PV hybrid power generation systems", International Journal of enhanced Research in Science Technology & Engineering, Vol. 3 Issue 1, January-2014, Pages 340-345.[January 2014, ISSN 2319-7463]
55.	Kuldeep Sahay, "Hybrid DSTATCOM Based On Supercapacitors & Batteries For Performance Improvement Of Distribution Network", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 2, No.8, 2013, Pages 3630-3638.[August 2013, ISSN 2278 – 8875]
56.	Anumeha Awasthi, Kuldeep Sahay, Anuj Yadav, " <u>Simulation and Harmonics Reduction of Wind-PV Hybrid System</u> ", International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 3, No.6, 2013, Pages 20-25.[June 2013, ISSN 2277-128X]
57.	Kuldeep Sahay & Bharti Dwivedi, "Design and Implementation of Supercapacitors Energy Storage System for Management of Power System Network", Journal of Electrical and Control Engineering,

	Vol. 2, No.4, 2012, Pages 20-25. [August 2012, ISSN 2226-289X]
58.	Kuldeep Sahay, et. Al, "Wind Power Integration Effect on Power System Network and Mitigation through STATCOM", Electrical India, Vol. 51, No.11, 2011, Pages 38-47.[November 2011]
59.	Kuldeep Sahay, "Harmonic Distortion Effects in Distribution Network and its Mitigation", Electrical India , Vol. 50, No.10, 2010, Pages 38-47.[October 2010]
60.	Kuldeep Sahay & Bharti Dwivedi, "Supercapacitors Energy Storage Based DSTATCOM Modeling and Simulation for Distribution System", Journal of Electrical Engineering, Vol. 10, No.3, 2010, Pages 1-8. [September 2010, ISSN 1582-4594]
61.	Kuldeep Sahay & Bharti Dwivedi, "Modeling & Design of Supercapacitors Bank for Performance Enhancement of Distribution Network, Electrical India , Vol. 50, No.2, 2010, Pages 66-72.[February 2010]
62.	Kuldeep Sahay, Bharti Dwivedi," Supercapacitors Energy Storage System for Power Quality Improvement: an Overview", "Journal of Electrical Systems", Vol. V, No. 4, December 2009 pages P8 (1-8). [December 2009, ISSN: 1112-5209]
63.	Kuldeep Sahay & Bharti Dwivedi, "Development of Techno-Economical Objective Function for Supercapacitors Energy Storage System Implemented in Distribution System", Electric Power Quality and Utilization, Vol. XV, No.2, 2009 Pages 29-33. [December 2009, ISSN: 1234-6799]
64.	Kuldeep Sahay, Bharti Dwivedi, "Design and analysis of Supercapacitors Energy Storage System for Energy Stabilization of Distribution Network", Electric Power Quality and Utilization, Vol. XV, No.1, 2009 Pages 25-32.[June 2009, ISSN:1234-6799]
65.	Kuldeep Sahay, Bharti Dwivedi, "Energy storage technology for performance Enhancement of Power Systems", Electric Power Quality and Utilization Magazine, Vol. IV, No.1 ,2009 Pages 1-12.[March 2009, ISSN:1234-6799]
66.	Kuldeep Sahay & Bharti Dwivedi, "Alternative Energy Generation: Techno-Commercial considerations", All India Seminar on "Energy Management in Indian Perspective Emerging technologies in the Alternative Energy for Power Generation", Organized by The Institution of Engineers (India) Lucknow, at Uttar Pradesh State Centre, Lucknow during 19th October 2008.
67.	Kuldeep Sahay & Bharti Dwivedi, "Risk Management for Life Extension of Distribution Transformers", National Seminar on "Reliability & Life Extension Techniques of Electrical Equipments in Power System", Organized by NPTI, Durgapur at Hotel Taj Residency, Lucknow during 28th and 29th August 2008.
68.	Kuldeep Sahay, Arunima Dey, Bharti Dwivedi & Anurag Tripathi, "Electro kinetics- A developing In-situ Pollution remediation Technology" in National Workshop on Sustainable Pollution Control; Institute of Engineering & Technology Lucknow on 8-9 Dec. 2005.
69.	Kuldeep Sahay, Arunima Dey, Bharti Dwivedi & Anurag Tripathi, "Carbon Dioxide Mitigation Through Carbon Tax In power Sector", National Workshop on Environmental Pollution: Perspectives & Practices at IET Lucknow on April 30,2004
70.	Kuldeep Sahay & Pramthesh Sahay; "Energy Management Strategies in Power Distribution System", International Conference on Recent Advances In solar Energy Conversion Systems. Maulana Azad College of Technology, Bhopal (M.P.), 28-29 Sept. 2002.
71.	Kuldeep Sahay, Rajeev Kumar, Shailendra Sinha & B.B.Singh. "Energy Conservation & Demand Side Management", National Seminar on the Energy Technologies for Sustainable Development. Birla Institute of Technology; Mesra, Ranchi, 17-18 December 1999.
72.	Kuldeep Sahay & Bharti Dwivedi. "Examination Strategies in Technical Education", All India Seminars on Technical Education Challenges Ahead. Institution of Engineers (India) U.P. Centre, Lucknow, 23-24 October 1999.
73.	Kuldeep Sahay, Rajeev Kumar, Shailendra Sinha & B.B.Singh. "Effective Maintenance Strategies for Wind Energy Conversion System", National Conference on Wind Energy Commercialization, Maulana Azad College of Technology, Bhopal (M.P.), 5-6 March1999.
74.	Kuldeep Sahay & B.B.Singh. "Energy Conservation through Innovative Approaches", National Seminar on recent trends in Energy Efficient Lighting Systems, Samrat Ashok Technological Institute Vidisha (M.P.) 5-6 Feb.1999.
75.	Dr. R.C. Goel, Bharti Dwivedi & Kuldeep Sahay; "Future Planning and Management of Energy Conservation in India". National Seminar on Energy Conservation at Institution of Engineers (India), Lucknow, 14 Dec 1998.

(c) Research Guidance**(i) Ph.D. Guidance**

Sl. No.	Research Topic	Name of Student	Date of Registration	Status
1.	Health Monitoring, Fault Diagnosis of Induction Motor Using Transformative Techniques	Khadim Moin Siddiqui	25-09-13	Awarded
2.	Assessment of Attack Resistance in Smart Grid	Ritul Agrawal	15-04-14	Continuing
3.	Performance Analysis of Maximum Power Point Tracker Techniques for Photo-Voltaic System	Balmukund Sharma	10-07-14	submitted
4.	Reduction of Reverse Recovery Losses Using Snubber Circuit in Modified SEPIC Converter	Kamal Singh	10-07-14	Continuing
5.	Mathematical Modeling Of Human Cardiovascular System & Removal Of Heart Blockage Through Electrical Signal	Saurabh Pandey	10-07-14	Continuing
6.	Improving the utilization of Regenerative Energy in urban Rail Transit System	Hement Kumar	30-09-16	Continuing
7.	Voltage Regulation of Unbalanced Power by D-STATCOM of Hybrid Renewable Resources	Vinamra Kumar Govil	22-11-17	Continuing

(ii) M. Tech. Thesis Supervised

Sl. No.	Thesis Title	Name of Student	Date of Award
1.	Modeling and Simulation of Doubly Fed Induction Generator with Wind Turbine and Performance Analysis	Rakesh Sharma	16-09-14
2.	Simulation and Comparison of Fuel Based Renewable Energy System Using MPPT Technique	Anumeha Awasthi	16-09-14
3.	To study the power Quality issues and harmonics Mitigation technique	Satendra Singh	21-10-16
4.	Battery Energy Storage in Smart Grid	Nilesh Praksh Singh	21-10-16
5.	Micro Grid and Its Adaptive Protection Using Digital Relay	Aakash Kumar Seth	10-07-17
6.	Protection of Micro Grid Using Differential Relay	Vipin Kumar Singh	16-07-17
7.	Modeling, Simulation and Performance Analysis of DFIG Based WECS Using Stator Voltage Oriented Control Technique During Fault and Loading Condition	Virendra Kumar Chaudhary	15-03-18

(d) Reviewer/Expert Lecture

(i) Member Editorial Board of “i-manager’s Journal on Electrical Engineering”, for period of July 2015 to June 2018.

(ii) Advances in Energy Research, An International Journal.

(iii) Delivered Expert talk on "Overview of DG and Storage Technologies with emphasis on Supercapacitors" in one week Faculty development programme on Recent Advances in Distribution Generation systems and Management(RADGSM-18) during 02-06 April,2018,organized by department of Electrical Engineering, KNIT Sultanpur.

(7) Short Term Courses/Workshops Attended

- TEQIP Special summer workshop on “Active Learning, Autonomy, Academic Governance and R& D” organized by IIT Roorkee, from 02-06 July, 2018.
- TEQIP-III Sponsored workshop on "Renewable Energy and Environment" organized by Chemical Engineering Department, IET, Lucknow, on 27-02-2018.

- iii. TEQIP II Sponsored Faculty Development Program on “Internet of Things”, Organized by Engineering Staff College of India Hyderabad & IET, Lucknow, from 06-10 March, 2017 at Lucknow.
- iv. TEQIP II Sponsored Faculty Development Program on “Entrepreneurship Development”, Organized by Institute of Entrepreneurship Development, U.P. Lucknow, from 05-09 December 2016 at Lucknow.
- v. TEQIP II Sponsored “2 Days NBA Workshop on SAR Filling through Active Instructional Methods”, Organized by Engineering Staff College of India, Hyderabad & IET, Lucknow, from 12-13 August, 2016 at Lucknow.
- vi. TEQIP II Sponsored National Workshop on “Outcome based Education and NBA Accreditation”, Organized by Engineering Staff College of India Hyderabad & SPFU, Lucknow, from 01-03 July, 2016 at Lucknow.
- vii. Management Development Programme on “Management Capacity Enhancement Programme (MCEP)” Organized by Indian Institute of Management Kozhikode (IIMK), from 20-25 June, 2016.
- viii. Workshop on “Oil Conservation”, Organized by Petroleum Conservation Research Association, on 18-03-2015 at IET, Lucknow.
- ix. Training on “TEQIP MIS”, Organized by NPIU/SPFU Maharashtra State during 10-11th, March 2014 at VJTI, Mumbai.
- x. National Workshop on “Industry Academia Interaction for Innovation and Quality Technical Education: A Path Forward for 2020”, Organized by IET, Lucknow, on 04th September, 2013, at IET Lucknow.
- xi. Workshop on “Industry-Academia Interaction for Strengthening Technical Education”, Organized by PHD Chamber of Commerce and Industry, Lucknow & HBTI, Kanpur, on 30th August, 2013, at PHD house, Lucknow.
- xii. Training on “Regulatory and Policy Framework for Market Development for Renewable Energy in India”, Organized by World Institute of Sustainable Energy, Pune during January 18-19, 2010 at Hotel Clark Awadh.
- xiii. DST/SERC School on “Electric Power Quality: Monitoring, Analysis and Mitigation” Organized by Department Of Electrical Engineering, Indian Institute of Technology Kanpur during April 07-11, 2008.
- xiv. Practical Workshop on “Embedded System Designs Based on Micro-controllers” organized by Department Of Electronics Engineering; IET Lucknow, during February 28-29, 2008.
- xv. Workshop on “VLSI Design Tools” organized by Department Of Electronics Engineering; IET Lucknow, during November 17-18, 2007.
- xvi. On “Process Analysis and Optimization using Pinch Technology” QIP course organized by the IIT Roorkee from 26-30 December 2006.
- xvii. On “Reactive Power Management” organized by the Power Systems Training Institute Bangalore from 18-21 April 2005.
- xviii. Workshop on “CAD/CAM”, Advanced course organized by the Department of Mechanical Engineering from 04-09 January, 1999, Institute of Engineering & Technology, Lucknow.

(8) Short Term Courses/Conferences Organized

- i. Organized two day faculty development program on "Smart Grid Technologies" under TEQIP-III on 16-17 February 2018 at IET Lucknow as Convener
- ii. Organized "National Conference on Emerging Trends in Electrical and Electronics Engineering" on 19-20 August, 2016 at IET Lucknow as Coordinator.
- iii. Organized "NBA Workshop on SAR through Active Instructional Methods" from 12-13 August, 2016 at Lucknow as Coordinator.
- iv. Organized the workshop on “Advances in Electrical Engineering-2015” on 25th April 2015, at IET Lucknow as Convener.
- v. Organized "Workshop on Real Time Simulation" on 10th September, 2010 at IET Lucknow as Coordinator.

(9) Social Work Carried Out

- i. Blood Donation camp.
- ii. Counseling of weaker students.

(10) Examination Related Work

- i. Head Examiner for Evaluation.
- ii. Flying Squad Member for UPTU Examinations.
- iii. Paper setter for various universities.
- iv. Head Examiner for Evaluation.
- v. Reviewer of Books.

(11) Consultancy Project Carried Out

- i. Tata Honeywell, Pune & SGPGI, Lucknow.
- ii. Bio-Technology Park, Lucknow.
- iii. Testing of Lead Acid Battery, Haadi Batteries, Lucknow.
- iv. Testing of Incandescent Lamp CDS Canteen, Lucknow.
- v. Testing of CT & PT.
- vi. Gyan Security Press, Lucknow.
- vii. Regional office, Reserve Bank of India, Lucknow.

(12) Curriculum /Laboratory Development

- i. Restructuring of the Lab facility Under TEQIP.
- ii. Floated new open Elective Course on Energy Management.
- iii. Contributed in Restructuring and Syllabus modification as Member of Board Studies in Lucknow University.
- iv. Member of Board Studies of U.P. Technical University, Lucknow.

(13) Computer Proficiency

Operating systems: Windows 2k/98/95, DOS, UNIX,
 Programming Skill: FORTRAN, C/C++
 Others: MS Office, MATLAB etc.

Personal Details

Name: Kuldeep Sahay
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Qualification: B.E., M.Tech., PhD (Electrical Engg.)

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