Dr. Naimul Hasan

Professor

Department of Electrical Engineering Jamia Millia Islamia (A Central University) New Delhi-110025 Email: nhasan@jmi.ac.in Mobile:+91 9911481836



Served as a Full Professor at: Department of Electrical Engineering College of Engineering Qassim University, KSA.) (2018-2024)

Academic Qualifications

Ph.D. (Electrical Engineering), Specialization: Power System
Jamia Millia Islamia, New Delhi, India, 2008
M.Tech. (Power System & Drives)
Aligarh Muslim University, Aligarh, India, 2002

Teaching Experience = 22⁺ Years

Refereed Research Journals:

- Naimul Hasan, I Alsaidan, M Sajid, S Khatoon, S Farooq, Robust self-tuned AGC controller for wind energy penetrated power system, Elsevier's "Ain Shams Engineering Journal", 13 (4), 101663, 2022. (SCI)
- 2. Naimul Hasan, I Alsaidan, M Sajid, S Khatoon, S Farooq, "Hybrid MPC-Based Automatic Generation Control for Dominant Wind Energy Penetrated Multisource Power System", Modelling and Simulation in Engineering 2022. (SCI)
- **3.** Y Pandey, **Naimul Hasan**, An Environment Friendly Energy-Saving Dispatch Using Mixed Integer Linear Programming Relaxation in the Smart Grid with Renewable Energy Sources, Distributed Generation & Alternative Energy Journal, 1239–1258, 2022. **(SCI)**
- **4.** Arkan Ahmed Hussein, **Naimul Hasan**, Ibraheem Nasirudin, Shuaib Farooq, "Load frequency controller for multisource interconnected nonlinear power system incorporating FACTs devices", International Journal of Automation and Control, Vol.14 No.3, pp.257–283, 2020. (Web of Science)
- Naimul Hasan, Ibraheem and Mohammad Sajid, "Hybrid Time-Series Methodologies for Short-Term Load Forecasting" International Journal of Advanced Science and Technology, Vol. 29, No. 5, pp. 4209 – 4220, 2020. (SCOPUS)
- 6. Arkan Hussein, Naimul Hasan, Shuaib Farooq, "Real Time Simulation of Observer Based State Feedback Load Frequency Regulator for Optimally Reduced Power System Model," Procedia Computer Science, Volume 155, Pages 559-567, August, 2019. Elsevier (SCOPUS)
- Naimul Hasan, Ibraheem, Yudhishthir Pandey, "Novel Technique for Transmission Loss Allocation in Restructured Power System", Volume 14, issue 4, pp. 1441–1451, 2019. Springer. (SCI)

- 8. Naimul Hasan, Ibraheem and Shuaib Farooq, "Hybrid Taguchi Genetic Algorithm based AGC controller for Multisource Interconnected Power System", *Electric Power Components and System*, vol. 49, pp. 101-122, 2019. (Taylor & Francis), (SCI).
- **9.** Naimul Hasan Ibraheem and Samiuddin Ahmad, "Decision based primary frequency control scheme in RGMO environment", *Sustainable Energy, Grids and Networks*, vol. 16, issue 4, pp. 405-414, 2018. (Elsevier), (SCI)
- 10. Naimul Hasan, Ibraheem and Samiuddin Ahmad, "ABT Based Load Frequency Control of Interconnected Power System", *Electric Power Components and System (U.S.A.)*, 2016. (Taylor & Francis), (SCI)
- **11. Naimul Hasan**, Ibraheem and Shuaib Farooq, "PI-Observer Based Optimal AGC Regulator for Interconnected Power System", *IOSR Journal of Electrical and Electronics Engineering*, vol. 11, no.6, pp. 79-87, 2016.
- 12. Naimul Hasan, Jitendra Nath Rai and Bharat Bhushan Arora, "Optimization of CCGT power plant and performance analysis using MATLAB/Simulink with actual operational data" *Springer Plus* 2014, 3:275, 2014. (SCI)
- Ibraheem, Naimul Hasan, Arkan Hussein, "Decentralized automatic generation control of interconnected power systems incorporating asynchronous tie-lines", *Springer Plus* 3:744, 2014. (SCI)
- 14. Naimul Hasan, Ibraheem and Prabhat Kumar, "Optimal Automatic Generation Control of Interconnected Power System Considering New Structures of Q", *Electric Power Components and Systems U.S.A.*), Volume 41 (2), pp. 136-56, 2013.(*Taylor & Francis*), (SCI)
- **15. Naimul Hasan,** Ibraheem, Prabhat Kumar and Nizamuddin "Sub-optimal automatic generation control of interconnected power system using constrained feedback control strategy", *International Journal of Electrical Power and Energy Systems*, Vol. 43, pp.295-303, 2012.(*Elsevier*), *SCI*)
- **16. Naimul Hasan**, Ibraheem, and Prabhat Kumar, "Optimal AGC of interconnected power system with modified area control error", *International Journal of Power and Energy Systems*, vol.32, No.4, 2012.(*ACTA PRESS*)
- 17. Ibraheem, Prabhat Kumar, Naimul Hasan and Nizamuddin, "Sub-optimal AGC of interconnected power system using output vector feedback control strategy", *Electric Power Components and System(U.S.A.)*, vol.40, no.9, pp. 977-994, 2012.(*Taylor & Francis*), (SCI)
- Ibraheem, Naimul Hasan, et.al. "Optimal AGC of interconnected power system with asynchronous tie-line under deregulated environment", *Electric Power Components and System (U.S.A.)*, vol.40, no.10, pp.1208-1228, 2012. (*Taylor & Francis*, (SCI)
- 19. S.U. Ahmad and Naimul Hasan, "Stability Analysis of Phase Controlled Closed Loop DC Drive with Elastic Coupling using D-Partition Technique", *Electric Power Components and Systems (U.S.A.)*, vol. 33, number 8, p.p.819-832, August 2005. (*Taylor & Francis*), (SCI)
- 20. Naimul Hasan Ibraheem and Samiuddin Ahmad, "Decision based primary frequency control scheme in RGMO environment", *Sustainable Energy, Grids and Networks*, vol. 16, issue 4, pp. 405-414, 2018. (Elsevier), Impact Factor =3.182, Science Citation Index, SCOPUS.

- 21. Naimul Hasan, Ibraheem and Samiuddin Ahmad, "ABT Based Load Frequency Control of Interconnected Power System", *Electric Power Components and System (U.S.A.)*, 2016. (Taylor & Francis), Impact Factor =0.681, Science Citation Index, SCOPUS.
- 22. Naimul Hasan, Ibraheem and Prabhat Kumar, "Optimal Automatic Generation Control of Interconnected Power System Considering New Structures of Q", *Electric Power Components and Systems U.S.A.*), Volume 41, Issue 2, pp. 136-156, 2013. (Taylor & Francis), Impact Factor =0.681
- 23. Naimul Hasan, Ibraheem, and Prabhat Kumar, "Optimal AGC of interconnected power system with modified area control error", *International Journal of Power and Energy Systems*, vol.32, No.4, 2012. (ACTA PRESS)
- 24. Ibraheem, Naimul Hasan, Prabhat Kumar and Yadav Singh, "Optimal AGC of interconnected power system with asynchronous tie-line under deregulated environment", *Electric Power Components and System (U.S.A.)*, vol.40, no.10, pp.1208-1228, 2012.

(Taylor & Francis), Impact Factor=0.681

- 25. J. N. Rai, Naimul Hasan, B. B. Arora, Rajesh Garai, Ibraheem, "Performance Analysis of CCGT Power Plant using MATLAB", *International Journal of Advancements in Research & Technology(IJOART)*, Volume 2, issue 5, pp. 285-290, 2013.
- **26.** J N Rai, **Naimul Hasan**, B B Arora, Rajesh Garai, "Study the Effect of Temperature Control on the Performance of the Output of Combined Cycle Gas Turbine", *International Journal of Theoretical and Applied Mechanics (IJTAM)*, ISSN:0973-6085 Volume 8 No. 1, pp.15-23, 2013.
- 27. J. N. Rai, Naimul Hasan, Rishabh K. Gupta, Rahul Kapoor, "Enhancement of Voltage Profile of Transmission Line by using Static VAR Compensator-An Overview", *International Journal of Engineering Research & Technology (IJERT)* vol. 2 issue 5, pp.1921-1925, May 2013.
- **28. Naimul Hasan**, Ibraheem and Shuaib Farooq, "Real time simulation of automatic generation control for interconnected power system", *International Journal of Electrical Engineering and Informatics*, vol. 4, no.1, pp. 40-51, March 2012.
- **29. Naimul Hasan**, Ibraheem and Shuaib Farooq, "Dynamic performance analysis of DFIG based wind farm with STATCOM and SVC", *International Journal of Emerging Technology and Advanced Engineering*, Volume 2, Issue 7, pp. 461-469,2012.
- **30.** J N Rai, **Naimul Hasan**, B B Arora, Ibraheem, "Optimization of Electrical Generator Output at Varying input Conditions in Combined Cycle Gas Turbine-A Bibliography", *International Journal of Engineering Research and Technology (IJERT)*, vol.1 issue 9, pp. 1-9, 2012.
- **31.** Ibraheem, **Naimul Hasan** and Omveer Singh, "GASA Tunned Optimal Fuzzy regulator for AGC of an Interconnected Power System", *International Journal of Computer Applications*, vol.20, no.8, pp.-43-48, April 2011.
- **32.** Ibraheem, Omveer Singh and **Naimul Hasan**, "Genetic Algorithm Based Scheme for Optimization of AGC Gains of Interconnected Power System", *Journal of Theoretical and Applied Information Technology*, Vol. 12, no. 1, pp.33-39, 2010.
- **33.** B.B. Arora, J.N. Rai and **Naimul Hasan**, "Effect of Supplementary heating on the performance of Combined Cycle", *International Journal of Engineering Studies*, vol.2, no.4, pp. 481-489, 2010.

- **34.** Ibraheem, **Naimul Hasan**, Arkan A. Hussein, "Automatic Generation Control of Interconnected Two-Area Using Fuzzy Logic PID Controller", IJERI, vol. 1, issue 7, August 2014.
- **35. Naimul Hasan**, B B Arora, J N Rai,"Performance Analysis of Combined Cycle Gas Turbine For frequency deviation and Temperature" *International Journal of Engineering Research and Informatics (IJERI)*, vol. 1, issue 7, ISSN 2348-6481, August 2014.
- **36. Naimul Hasan**, B.B.Arora, J.N Rai,"Investigations on Effect of Incorporation of Photovoltaic System with CCGT Plant, *International Journal of Electrical and Electronics Engg. (IJEEE)*, ISSN: 2321-2055, Vol 6, Issue 02, Dec -2014.
- 37. J. N. Rai, Naimul Hasan, B B Arora, Ibraheem, "Study of Combined Cycle Gas Turbine Power Plant-An Overview" *Journal of Industry of Electrical & Electronics Manufacturing Association (IEEMA journal)*, vol. 5, issue No. 6, pp. 82-86, February-2014.
- **38.** Jitendra Nath Rai, **Naimul Hasan**, BB Arora, Ibraheem, "Remote Management of Combined Cycle Gas Turbine through Cloud Computing", *International Journal on Advances in Computing and Communication Technology*, vol.2 issue 1, pp. 18-20; September-2013.
- **39. Naimul Hasan**, B B Arora, J N Rai, "Comparison of Facts devices for two area power system stability enhancement using MATLAB Modelling", *International Journal of Electrical Engineering and Technology*,vol-5,issue-8,pp-41-52, Aug -2014.
- **40.** Shahida Khatoon, Nowreen Mukhtar, **Naimul Hasan**, Mohammad Shahid, Md. Istiyaque and Khan Azmat, "A Review of Modelling and Control of Inverted Pendulum System" *International Journal of Design Engineering*, ISSN No: 0011-9342, Issue:7, pp. 415-424, 2021.
- 41. Shahida Khatoon, Md. Istiyaque, Naimul Hasan, D. K. Chaturvedi and Salman Ahmed Khan "Optimal Output Vector Feedback Control Strategy for Double Inverted Pendulum" *International Journal of Advanced Science and Technology* (IJAST),ISSN No: 2207-6360, pp. 10729-10740, 2020.
- **42.** Shahida Khatoon, Md. Istiyaque, **Naimul Hasan** and D. K. Chaturvedi "Two Wheeled Self Balancing Mobile Robot Using Kalman Filter and LQG Regulator" Scopus Indexed proceedings "Lecture Notes *In Recent Advances in Mechanical Engineering*, http://doi.org/10.1007/978-981-15-8704-7_26, pp:213-221, 2019.

(A) National/International Conferences

- Naimul Hasan, Ibraheem, and Samiuddin Ahmad, "Market-based Load Frequency Control of Interconnected Power System", 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES) DOI:10.1109/ICPEICES.2018.8897301, 2018.
- Kumar, J. Rai, J.N., Hasan, N., "Use of Phasor Measurement Unit (PMU) for large scale power system state estimation", Power Electronics (IICPE-2012) IEEE 5th India International Conference, 6-8 Dec. 2012, Delhi, pp.1-5 @IEEE Explorer, DOI:10.1109/IICPE.2012.6450371

- **3.** Naimul Hasan, Ibraheem and Shuaib Farooq, "Real time control centre lab for research and training for power system operation and control", CIPECH-14, 28-29 December 2014@IEEEExplorer.
- **4.** Naimul Hasan, Ibraheem and Yudhishthir Pandey, "Transmission loss allocation using fairness index in deregulated Market", CIPECH-14, 28-29 December 2014@IEEEExplorer.
- Naimul Hasan, "Analysis of Phase Controlled Closed Loop DC Drive Torsional System Using D- Partition Technique," Proc. National Conference on Recent Trends in Power Management, Jamia Millia Islamia, New Delhi (India), pp. 179-183, August 16-17, 2003.
- 6. Naimul Hasan, Ibraheem and Yadav Singh, "An Overview of AGC Strategies in Power Systems", Proc. National Conference on "*Recent Advances in Electrical and Electronics Engineering (RAEEE-2009)*", NIT Hamirpur, Himachal Pradesh (India), pp. 72-79, December 23-24, 2009.
- 7. Naimul Hasan and Yudhishthir Pandey, Performance Improvement of Combined Pool/Bilateral Dispatch, *National Electrical Engineering Conference* (NEEC-2011), DTU, Dec 16-17, 2011.
- 8. Naimul Hasan and Ibraheem, Optimal AGC Regulators for Interconnected Power Systems with Parallel AC/DC Links Considering New Structures of 'Q', *National Electrical Engineering Conference* (NEEC-2011), DTU, Dec 16-17, 2011.
- **9.** Naimul Hasan and Ibraheem, Sub-Optimal AGC of Interconnected Power System with Parallel AC/DC Link, *National Electrical Engineering Conference* (NEEC-2011), DTU, Dec 16-17, 2011.
- 10. Naimul Hasan, Ibraheem, Nizamuddin, "Pole-Placement Technique: An Application to AGC of Interconnected Power System", Proc. National Conference on Power, Instrumentation, Energy & Control (πCON-2011), AMU, Aligarh, pp.156-162, Feb. 12-13, 2011.
- Naimul Hasan, Ibraheem, FarazAhmer and Nizamuddin, "Design and Implementation of Optimal AGC regulators using Pole Placement Technique", *Proc. International Conference on "Electrical Power and Energy Systems (ICEPES-2010)"*, MANIT Bhopal, M. P. (India), pp. - 312-317, August 26-28, 2010.
- 12. Ibraheem and Yadav Singh, Naimul Hasan, and Nizamuddin, "Automatic Generation Control of Interconnected Power Systems with Different Area Size Ratio", Proc. National Conference on "*Recent Advances in Electrical and Electronics Engineering (RAEEE-*2009)", NIT Hamirpur, Himachal Pradesh (India), pp. 65-71, December 23-24, 2009.
- 13. Ibraheem, Omveer Singh and Naimul Hasan, "GA Based Optimization of AGC Gains for a Two- Area Interconnected Power System", Proc. National Conference on "*Recent Advances in Electrical and Electronics Engineering (RAEEE-2009)*", NIT Hamirpur, Himachal Pradesh (India), pp. 176-180, December 23-24, 2009.
- 14. Ibraheem, Naimul Hasan and Omveer Singh, "Fuzzy Logic based AGC Regulators for Power System with Asynchronous Tie-lines Incorporating Parametric Uncertainties", International Conference on Computer & Communication Technology (ICCCT), 2011, MANIT, Allahabad, December 24-25,2011, @IEEE Explore
- **15.** J. N. Rai, Naimul Hasan, B.B. Arora, Ajendra Singh and Tapesh, "Enhancement of Voltage Profile of Transmission Line by using Static VAR Compensator-A Case

Study", National Electrical Engineering Conference (NEEC-2011), DTU, Dec 16-17, 2011.

- 16. Mashhood Hasan, Naimul Hasan, Dinesh Kumar, Sunil Kumar, "Modeling of Passive Lag-Compensator to Mitigate the Torsional Interaction", *Proc. National Conference on Power, Instrumentation, Energy & Control (πCON2011)*, AMU, Aligarh, pp.267-272, Feb. 12-13, 2011.
- 17. Ibraheem, Omveer Singh and Naimul Hasan, "Hybrid Stochastic Search Technique based Suboptimal AGC Regulator Design for Power System using Constrained Feedback Control Strategy', *International Conference on Modeling, Optimization, and Computing* (ICMOS 20110) Volume 1298, pp. 427-432 October 26, 2010.
- 18. Ibraheem, Omveer Singh, Naimul Hasan, "Application of Hybrid Stochastic Search Technique To Sub-Optimal AGC Regulator Design For Interconnected Power Systems", *Proc. International Conference on "Electrical Power and Energy Systems (ICEPES-2010)*, MANIT Bhopal, M. P. (India), pp.403-407, August 26-28, 2010.
- **19.** Mashhood Hasan, Shiksha Batwal, Naimul Hasan, "Analysis and Mathematical Modelling of Sub-Synchronous Resonance to Mitigate Torsional Interaction using Passive Lag Compensator", Proc. International Conference on "*Electrical Power and Energy Systems (ICEPES-2010)*, MANIT Bhopal, M. P. (India), pp.38-41, August 26-28, 2010.
- 20. Ibraheem, Naimul Hasan, Gulshan Sharma, Shamshad Ali "Fuzzy Tunned Variable Structure Controller For AGC of An Interconnected Power System", Proc. International Conference on "Electrical Power and Energy Systems (ICEPES-2010), August 26-28, 2010, MANIT Bhopal, M. P. (India), pp.457-463, 2010.
- 21. Ibraheem, Prabhat Kumar, Yadav Singh, Naimul Hasan, "Load Frequency Control Of Interconnected Power System In Deregulated Environment With Bilateral Contracts" Proc. International Conference on "Electrical Power and Energy Systems (ICEPES-2010), MANIT Bhopal, M. P. (India), pp. 464-471, August 26-28, 2010.
- 22. Naimul Hasan, ShahidaKhatoon, Ibraheem and Yadav Singh, "Automatic Generation Control Problem in Interconnected Power Systems", National Conference on "Emerging Trends in Electrical, Instrumentation & Communication Engineering (ETEIC-2012), pp. 368-374, April 6-7, 2012.
- 23. Shahida Khatoon, Ibraheem, Naimul Hasan, and Reshma Ehtesham, "Overview of Control Technologies for Wind Power Systems, National Conference on "*Emerging Trends in Electrical, Instrumentation & Communication Engineering (ETEIC-2012)*, pp. 368-374, April 6-7, 2012.
- 24. Shahida Khatoon, Ibraheem, Naimul Hasan and Ahmad Saad Khan, "GSM Based Autopath Finding Robot", National Conference on "*Emerging Trends in Electrical, Instrumentation & Communication Engineering (ETEIC-2012)*, pp.382-389, April 6-7, 2012.
- 25. Jitendra Nath Rai, D Mishra, Naimul Hasan, BB Arora, Ibraheem, "Remote Management of Combined Cycle Gas Turbine through Cloud Computing", *International Conference on Computer Networks and Information Technology(ICCNIT)*, Bangkok, Thailand, pp.129-133, June 29-30, 2013.
- **26.** J N Rai, Naimul Hasan, B B Arora, Rajesh Garai, Rishabh K Gupta, "Optimization of CCGT power plant and performance analysis using MATLAB/SIMULINK based

Simulation", Second International Conference on Electrical Control and Computer Engineering (IECCE 2013) at University of Malaysia, Pahang, pp.48-52, August 27-28, 2013.

- 27. Arkan Ahmed Hussein, Ibraheem, Naimul Hasan, "Decentralized Automatic Generation Control Interconnected Power Systems Using Genetic Algorithm", Bangkok International Conference on Engineering and Applied Sciences (BICEA), Thailand, 2015.
- 28. Naimul Hasan, Ibraheem and Shuaib Farooq, "Parameter Optimization of Automatic Generation Controller for Interconnected Power Systems using BAT Algorithm, *National Conference on Emerging Trends in Electrical And Electronics Engineering (ETEEE-2015)* Jamia Millia Islamia, New Delhi.
- **29.** Naimul Hasan, B.B Arora, J.N .Rai, "Investigations on Effect of Incorporation of Photovoltaic System with Combined Cycle Gas Turbine Plant", Paper presented to *International Conference on Emerging Ttrends in Science and Cutting Edge Technology*, Paper ID:222, Organised by Conference World, YMCA Connought Place, New Delhi, India, 2014.
- **30.** Shahida Khatoon, D.K. Chaturvedi, Naimul Hasan and Md Istiyaque "Optimal Control of a double inverted pendulum by Linearization Technique" *IEEE International conference IMPACT* 2017 in The Electronics Engineering Department, Aligarh Muslim University(AMU) pp:123-127.
- 31. Shahida Khatoon, Devendra Kumar Chaturvedi, Naimul Hasan and Md. Istiyaque "Observer Based Controller Design for Inverted Pendulum System" *International conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-*2018) October 22th – 24th - 2018, in Department of Electrical Engineering Delhi Technological University(DTU), Delhi, India.
- **32.** Shahida Khatoon, Md. Istiyaque, Naimul Hasan and Devendra Kumar Chaturvedi "Optimal Swing-up Controller Design for a Self Balancing Autonomous Mobile Robot" *JTA Multidisciplinary International Conference*, 16-18 February 2020, Jamia Millia Islamia, New Delhi, India.
- **33.** Shahida Khatoon, Md. Ishtiyaque, Naimul Hasan and D. K. Chaturvedi, "Swing-up Control of Two Wheeled Self Balancing Double inverted Pendulum System" *International Conference on Advances In Science and Technology (RECON-19)*, 28th–29th November 2019, ISBN: 978-93-89296-42-6, Department of Electrical Engineering Ambedkar Nagar, Uttar pradesh.
- **34.** Shahida Khatoon, Devendra Kumar Chaturvedi, Naimul Hasan and Md. Istiyaque, "Optimal Controller Design for Two Wheel Mobile Robot", 3rd International Conference on Innovative Applications of Computational Intelligence on Power, Energy and Controls With Their Impact on Humanity (CIPECH-18) 1st–2nd November 2018, Department of Electrical & Electronics Engineering KIET GROUP OF INSTITUTEIONS, Ghaziabad.
- **35.** Shahida Khatoon, Naimul Hasan, Md. Istiyaque, Adil Khan and D. K Chaturvedi, "Modeling and Optimal Control Design for an Inverted Pendulum System", *National system conference (NSC)* Dec-2017, Dayalbagh Educational Institute Dayalbagh, Agra U.P, India.

(B) Conferences Attended:

- Presented a paper on "Analysis of Phase Controlled closed loop DC Drive Torsional system using D-partition technique" at *National Conference on Recent Trends in Power Management*, Deptt. of Electrical Engg., Jamia Millia Islamia, New Delhi, on August 16-17,2003.
- Presented a paper on "An Overview of AGC Strategies in Power Systems An Overview of AGC Strategies in Power Systems" at *National Conference on Recent Advances in Electrical and Electronics Engineering (RAEEE-2009)* by Department of Electrical Engg., NIT Hamirpur, Himachal Pradesh (India), December 23-24, 2009.
- Presented a paper on "Design and Implementation of Optimal AGC regulators using Pole Placement Technique" at International Conference on "*Electrical Power and Energy Systems (ICEPES-2010)* organized by Department of Electrical Engg., MANIT Bhopal, M. P. (India), August 26-28, 2010.
- Presented a paper on "Load Frequency Control of Interconnected Power System in Deregulated Environment with Bilateral Contracts" at *International Conference on "Electrical Power and Energy Systems (ICEPES-2010)* organized by Department of Electrical Engg., MANIT Bhopal, M. P. (India), August 26-28, 2010.
- Presented a paper on "Pole-Placement Technique: An Application to AGC of Interconnected Power System" at *Power, Instrumentation, Energy & Control (\pi CON-2011)* organized by AMU, Aligarh, Feb. 12-13, 2011.
- Presented a paper on "Sub-Optimal AGC of Interconnected Power System with Parallel AC/DC Link" at *National Electrical Engineering Conference (NEEC-2011)*, organized by DTU, New Delhi, Dec 16-17, 2011.
- Presented a paper on "Optimal AGC Regulators for Interconnected Power Systems with Parallel AC/DC Links Considering New Structures of Cost weighting matrices" at *National Electrical Engineering Conference (NEEC-2011)*, organized by DTU, New Delhi, Dec 16-17, 2011.
- Presented a paper on "Automatic generation control problem in interconnected power system" at National Conference on "*Emerging Trends in Electrical, Instrumentation & Communication Engineering (ETEIC-2012)*, organized by AEC, Agra on 6-7 April, 2012
- Presented a paper on "Optimal AGC Regulators for Interconnected Power Systems with Parallel AC/DC Links Considering New Structures of Cost Weighting Matrices" at *National Electrical Engineering Conference (NEEC-2011)*, organized by DTU, New Delhi, Dec 16-17, 2011.
- Presented a paper on "Automatic generation control problem in interconnected power system" at National Conference on "*Emerging Trends in Electrical, Instrumentation & Communication Engineering (ETEIC-2012),* organized by AEC, Agra, 6-7 April, 2012.

(C) Short Term Courses/ Training Program Attended:

• QIP Short term course on "Modelling & Reduction of Large Scale Systems" Department of Electrical Engineering, IIT Roorkee, 2004.

- "Winter School" on "MATLAB & Soft Computing in Electrical Engineering", Department of Electrical Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi, 2004.
- Orientation Programme, Jamia Millia Islamia, New Delhi, from 20th July to 16th August, 2010.
- QIP Short term course on "Building Integrated Photovoltaic Thermal Systems" Centre for Energy Studies, IIT Delhi, February 8-14, 2011.
- Two day workshop on LABVIEW and MATLAB Application, DayalBagh Educational Institute, Agra, March 25-26, 2011.
- Short term course on "Integrating Renewable Energy Sources into Emerging Electric Power Systems", IIT Mandi, Himachal Pradesh, May 16-21, 2011.
- AICTE Staff Development Programme on "Flexible A.C. Transmission Systems and Power System Voltage Stability: Recent Advances", Department of Electrical Engineering, Delhi Technological University, New Delhi, July 11-22, 2011.
- AICTE Staff Development Programme on "Recent Advances in Electrical Power & Energy Systems", Department of Electrical Engineering, Jamia Millia Islamia, New Delhi, Dec 09-22, 2011.

Research Publications

Refereed Research Journals=42 National/International Conferences =35 Conferences Attended=10 Short Term Courses/ Training Program Attended=8

Research Project=3

Ph.D. Supervised/Co-Supervised=6

Contributions to the Department:

- B.E. (Electrical) Coordinator, 2016
- Sessional Test Coordinator 2014-2016
- In- charge Time Table -2011
- In-charge Attendance 2011 & 2012
- In-charge- Basic Electrical Engineering Lab, 2011-2015
- Coordinator, Ph.D. progress presentations, 2012-14
- In-Charge, Departmental Annual Report 2008.
- Member of the Purchase committee, 2008-2010
- Member of the Faculty Sports committee, 2008

Contributions to Corporate Life of the University:

- Superintendent, Assistant Superintendent, B. Tech. Entrance Exam 2013, 2003-2012
- Member of the verification unit (F/O Engg. & Tech.), 2008-2012.
- Member, seating arrangement Committee for Annual Convocation, 2009-2012.
- Member of the Organizing Committee of Techno-Social Function "Tripster-2009"
- Member of the departmental purchase committee, 2009
- Member of the organizing committee, Winter School, 2004.
- Member of the organizing committee, National conference, 2003.

Member of Board of Studies: Served at Department of Electrical Engineering, JC Bose University Haryana, Mahavir University Uttar Pradesh.

Research Project:

A Major Research Project titled "Development and implementation of Nature inspired optimization techniques in AGC of interconnected power systems with parallel AC/DC links" awarded by University Grant Commission, Govt. of India (Rs.12,46,800/-), 2013-2016. (Successfully completed)

Ph.D. Supervised

Ph.D. Scholar	Title of Ph.D. Thesis
Shuaib Farooq	Real Time Simulation of Advance Controllers for Automatic Generation Control of Interconnected Power Systems.
Jitendra Nath Rai	Optimization of Electrical Generator Output at Varying Input Conditions in Combined Cycle Gas Turbine.
Arkan Ahmed Hussein	Decentralized AGC Strategies In Interconnected Power Systems Incorporating Parallel AC/DC Links
Samiuddin Ahmad	ABT Based Strategies for Automatic Generation Control in Interconnected Power Systems.
Yudhister Pandey	Evaluating Nodal Prices and Decomposition in Restructured Power System
Mohd Ishtiyaque	Optimal Controller Design for Autonomous System