

DR. ARIF IQBAL

Assistant Professor

Department of Electrical Engineering

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PROFILE SUMMARY

Full Name	Arif Iqbal
Father's Name	Late M. S. Ansari
Date of Joining	11/12/2017
Department	Electrical Engineering
Qualification	B. Tech. (Electrical Engineering)-2005 Aligarh Muslim University, Aligarh, U. P. M. Tech. (Power System & Drives)-2007 Aligarh Muslim University, Aligarh, U. P. Ph. D. (Electrical Engineering)-2016 Indian Institute of Technology Roorkee, Uttarakhand

Additional Roles / Responsibilities at Institute / Department Level (Charge at present):

- Associate Dean Student Welfare
- Convener, Technical Council, Council of Students' Activities
- OI/C, Central Store
- Member, Anti-Ragging Committee
- Departmental Coordinator, NBA
- Member, Class Monitoring Committee.
- OI/C. Electric Drives Lab.

Member of Professional Bodies: IEEE

Publications:

Journal Papers	11 (Published);	- (Accepted);	02 (Communicated)
Conference Papers	11 (Published);	- (Accepted);	- (Communicated)

Workshop/Seminar/Conference/Short Term Courses/Faculty Development Programmes

(not less than one week duration):

12 (Attended); 05 (Organized)

Key Note Address/Expert Lecture Delivered: 03

B. Tech. Projects Supervised 04 (Completed); 02 (In Progress)

Research Paper Published/Accepted

Publication in Journal

1. **Arif Iqbal**, G.K. Singh, Vinay Pant, “Stability analysis of an asymmetrical six-phase synchronous motor”, *Turkish Journal of Electrical Engineering & Computer Science*, Vol. 34, No. 3, pp. 1674-1692, March 2016. [**SCI journal**]. DOI: 10.3906/elk-1403-46
Arif Iqbal, G.K. Singh, Vinay Pant, “Steady-state analysis of six-phase synchronous motor”, *System Science & Control Engineering*, Vol. 2, No. 1, pp. 236-249, March 2014. [**Publisher: Taylor & Francis**]. DOI: 10.1080/21642583.2014.895970
2. **Arif Iqbal**, G.K. Singh, Vinay Pant, “Vector control of asymmetrical six-phase synchronous motor”, *Cogent Engineering*, Vol. 3 No. 1, 1134040, January 2016. [**Publisher: Taylor & Francis**]. DOI:10.1080/23311916.2015.1134040
3. Arif Iqbal, G.K. Singh, Vinay Pant, “Some observation on no-load losses of an asymmetrical six-phase synchronous machine”, *Turkish Journal of Electrical Engineering & Computer Science*, Vol. 24, No. 5, pp. 4497-4507, June 2016. [**SCI journal**]. DOI: 10.3906/elk-1505-78
4. G.K. Singh, **Arif Iqbal**, “Analysis of asymmetrical six-phase synchronous motor under fault condition”, *Chinese Journal of Electrical Engineering*, Vol. 3, No. 2, pp. 62-75, September 2017. [**Publisher: IEEE**]. DOI: 10.23919/CJEE.2017.8048413
5. Ajay Kumar Vyas, Navneet Agrawal, Arif Iqbal, “Comparison of digital signal processing, feedback and feedforward compensation technique for dual polarization 128-QAM radio over fiber link”, *Optik*, Vol 174, pp 68-76, December 2018. [Publisher: Elsevier, **SCI journal**]. DOI: <https://doi.org/10.1016/j.ijleo.2018.08.053>
6. **Arif Iqbal**, Girish Kumar Singh, “Chaos control of permanent magnet synchronous motor using simple controllers”, *Transactions of the Institute of Measurement and Control*, 41 (8), October, 2018, DOI: 10.1177/0142331218799830 [**SCI Journal, Impact Factor 1.579**].

7. G.K. Singh, **Arif Iqbal**, “Small Signal Stability of Three-phase and Six-phase Synchronous Motors: A Comparative Analysis”, *Chinese Journal of Electrical Engineering*, vol. 6, No. 1, pp. 22-40, March 2020 [Publisher: **IEEE**]
DOI: 10.23919/CJEE.2020.000002
8. **Arif Iqbal**, Girish Kumar Singh, “Modeling and stability analysis of three- and six-phase asymmetrical grid-connected induction generator”, *Electrical Engineering*, Dec. 2020 [Publisher: **Springer**]. (**SCI Journal, Impact Factor 1.180**).
DOI: <https://doi.org/10.1007/s00202-020-01145-w>
9. **Arif Iqbal**, Girish Kumar Singh, “PSO Based Controlled Six-phase Grid Connected Induction Generator for Wind Energy Generation”, *IEEE CSE Transactions On Electrical Machines And Systems*, vol. 5, no. 1, pp. 41-49, March 2021 [Publisher: **IEEE**]. DOI: 10.30941/CESTEMS.2021.00006
10. M. Naseem, Mohammed Aslam Husain, Ahmad Faiz Minai, Ahmad Neyaz Khan, Mohd Amir, J. Dinesh Kumar & **Arif Iqbal**, “Assessment of Meta-Heuristic and Classical Methods for GMPPT of PV System”, *Transactions on Electrical and Electronic Materials*, volume 22, pp. 217–234, March 2021 [Publisher: **Springer**]
DOI: <https://doi.org/10.1007/s42341-021-00306-3>
11. Jaswant Singh, Surya Prakash Singh, Kripa Shanker Verma, **Arif Iqbal**, Bhavnesh Kumar, “Recent control techniques and management of AC microgrids: A critical review on issues, strategies, and future trends”, *International Transactions on Electrical Energy Systems*, e13035, July 2021 [Publisher: **Wiley, SCI Journal, Impact Factor 2.86**]. DOI: <https://doi.org/10.1002/2050-7038.13035>

Publication in Conference

1. **Arif Iqbal**, M. Rizwan Khan, “Sensorless control of a vector controlled three-phase induction motor drive using artificial neural network”, *IEEE Joint International Conference on Power Electronics, Drives and Energy Systems (PEDES) & 2010 Power India*, pp. 1-5, 20-23 Dec. 2010.
2. **Arif Iqbal**, Omveer Singh, “Maximum torque per ampere control of six phase synchronous motor”, *IEEE international Conference on Control, Computing and Materials (ICCCCM) 2016*, 21-22 Oct. 2016.
3. Omveer Singh, **Arif Iqbal**, Sanjeev Kumar, Saurabh Kr. Rajput, “Hybrid renewable energy system integration in the micro-grid: Indian context”, *IEEE international Conference on Control, Computing and Materials (ICCCCM) 2016*, 21-22 Oct. 2016.
4. **Arif Iqbal**, Ajay Vyas, “Modified internet of things technology for high power”, *Nanotechnology for Instrumentation and Measurement Workshop (III International Conference) November 16-17, 2017*.
5. **Arif Iqbal**, M. Aslam Husain, “MRAS based Sensorless control of Induction Motor based on rotor flux” **IEEE International Conference on “Computational and Characterization Techniques in Engineering and Sciences (CCTES-18)**, Integral University, Lucknow, September 14-15, 2018. This paper has been awarded as **Best Paper** of the conference.
6. Shamsullaqa, Shatrughn, Antima Pandey, **Arif Iqbal**, Akhilesh Kumar Mishra, Mohammed Aslam Husain, “Economic Feasibility Analysis of Solar PV Generation at REC Ambedkar Nagar”, *IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT)*, 20-22 Feb. 2019 Coimbatore, India.
7. Mohammed Aslam Husain ; **Arif Iqbal** ; Yudhishtir Pandey ; S. P. Singh ; Abu Tariq, “A novel Fast Alterable Duty (FAD) MPPT procedure for Solar PV Hybrid Vehicles”, 5th IEEE Uttar Pradesh Section *International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, 2-4 Nov. 2018, Gorakhpur, India.
8. **Arif Iqbal**, M. Aslam Husain, “Closed Loop Operation of Induction Machine using MRAS based Sensorless Scheme”, *IEEE Sponsored International Conference on Power Electronics, Control and automation (ICPECA)*, 16-17 Nov, 2019, New Delhi.

9. Jaswant Singh, S.P. Singh, A. K. Mishra, **Arif Iqbal**, Ravinder Kumar, “Comparison of controllers used in fuel cell for power conditioning”, *Advances in Science and Technology, A Proceeding of International Conference, Rajkiya Engineering College conference 2019 (RECON-19)*, 28-29 Nov. 2019, Ambedkar Nagar, India.
10. Amandeep Singh, Yudhishtir Pandey, Mohammed Aslam Husain, **Arif Iqbal**, S. P. Singh, A. K. Mishra, “Intellectual property rights-Basics & application Procedure”, *Advances in Science and Technology, A Proceeding of International Conference, Rajkiya Engineering College conference 2019 (RECON-19)*, 28-29 Nov. 2019, Ambedkar Nagar, India.
11. Mohammed Aslam Husain, Arpit Agnihotri, **Arif Iqbal**, Yudhishtir Pandey, and Ahmad Neyaz Khan, “Simulation and Analysis of Everyday Use Electric Vehicle”, *Proceedings of Integrated Intelligence Enable Networks and Computing, Algorithms for Intelligent Systems*, 2021. DOI: https://doi.org/10.1007/978-981-33-6307-6_37