



(Isarar Ahamad)

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PROFILE

Isarar Ahamad joined the department of Electrical Engineering as an Assistant Professor in July 2013. He has overall experience of more than 12 years. Dr. Isarar has completed his B.Tech from UPTU Lucknow in the year 2007 and M.Tech from NIT Hamirpur (H.P) in the year 2009 respectively. Later completed his PhD from Integral University in the year 2022.

RESEARCH INTEREST:

- Power Converters
- Multilevel Inverters
- Solar PV System applications

SUMMARY OF RESEARCH ACCOMPLISHMENT:

- ➤ Citations :43
- ➤ H index :3
- ➤ I10 index :1
- ➤ Invited Talk as a Resource Person :01

PROFESSIONAL MEMBERSHIP:

- IEEE

COURSE TAUGHT:

- Signal System Analysis
- FACTS Devices
- Solid State Devices & Circuits
- Power Generation Operation & Control
- Introduction to Soft Computing
- Control System
- Basic Electrical
- Network Analysis
- Application of Power Electronics to Power System
- HVDC Transmission System
- Advance Power Electronics

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

- Patent Member, Integral University
- Departmental in charge of NAAC University team (Criteria-5)
- In charge of Departmental Hospitality committee
- Time table coordinator
- Admission committee

STUDENTS SUPERVISION

PhD	03 (Supervising)
M. Tech	8
B. Tech	10

PUBLISHED/GRANT PATENTS

- Auto Cleaning Storm Water Harvester (Application no: .202311056649 A)
- Graphene Nanoribbon Field Effect Transistor Based operational Transconductance Amplifier with High Slew Rate For Bio-S (Application no: . 202311061483)
- Magnetic Anisotropy in the Ferromagnetic Mn and N doped ZnO Nanocrystal (Application no: .202311025404 A)

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- Ahamad, Isarar, Faizan A. Khan, Arun K. Yadav, Nitai Pal, Vishal S. Chandel, Aftab Yaseen, Ijtaba S. Khan, and Mahfooz Ahmad. "Performance assessment of solar energy driven cascaded H-bridge multilevel inverters." *Microsystem Technologies* (2024): 1-9.
- Ahamad, Isarar, Atif Iqbal, Majed A. Alotaibi, Hasmat Malik, Fausto Pedro García Márquez, and Asyraf Afthanorhan. "Packed U Cell Seven Level and Five Level Inverter Topologies for Renewable Energy Applications." *International Journal of Mathematical, Engineering & Management Sciences* 9, no. 4 (2024).
- Ahamad, Isarar, A. J. Ansari, and Atif Iqbal. "THD Analysis of 5-Level, 7-Level and 9-

Level CHB—Multilevel Inverters Using SPWM Switching Approach." In Renewable Power for Sustainable Growth: Proceedings of International Conference on Renewal Power (ICRP 2020), pp. 719-728. Springer Singapore, 2021.

- Ahamad, Isarar, and A. J. Ansari. "Nine-Step Multilevel Inverter Output Analysis Using the EP Approach." In Renewable Power for Sustainable Growth: Proceedings of International Conference on Renewal Power (ICRP 2020), pp. 397-405. Springer Singapore, 2021.
- Ahamad, Isarar, Mohammed Asim, Archana Verma, and Mohammed Huzaifa. "Fault Detection in AC Transmission System Using Multiple Signal Classification Technique." In Applications of Computing, Automation and Wireless Systems in Electrical Engineering: Proceedings of MARC 2018, pp. 1-9. Springer Singapore, 2019.
- Sarkar, Prabhat Ranjan, Ahmad Faiz Minai, Isarar Ahmad, Farhad Ilahi Bakhsh, Akhlaque Ahmad Khan, and Rupendra Kumar Pachauri. "Power Quality Assessment and Enhancement using FLC based SPV Supported Cascaded H-Bridge Multilevel Inverter." *e-Prime-Advances in Electrical Engineering, Electronics and Energy* 7 (2024): 100465.

PAPER PUBLISHED IN NATIONAL/INTERNATIONAL CONFERENCES

- I Ahamad, AJ Ansari, A Iqbal (2021). THD Analysis of 5-Level, 7-Level and 9- Level CHB—Multilevel Inverters Using SPWM Switching Approach. Lecture Notes in Electrical Engineering book series (LNEE, volume 723) (SCOPUS) https://link.springer.com/chapter/10.1007/978-981-33-4080-0_693.
- . Rajanish kumar kaushal, isarar Ahamad (2014). Transmission Expansion Planning in Deregulated Power Sector. Recent Advances in Power Systems (RAPS-14).
- Isarar Ahamad, Rajneesh Kumar Kaushal, O.P Rahi “ Comparison between Static and Electromechanical Relay in the Context of Power System Protection” National conference on (AREST-11).
- I Ahamad, AJ Ansari (2021). Nine-Step Multilevel Inverter Output Analysis Using the EP Approach. Lecture Notes in Electrical Engineering book series (LNEE, volume 723).(SCOPUS) https://link.springer.com/chapter/10.1007/978-981-33-4080-0_384.
- Ahamad, I., Asim, M., Verma, A., Huzaifa, M. (2019). Fault Detection in AC Transmission System Using Multiple Signal Classification Technique. Lecture Notes in Electrical Engineering, vol 553. Springer, Singapore. (SCOPUS)https://doi.org/10.1007/978-981-13-6772-4_1

PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS

- Mirza Mohammad Shadab, Isarar Ahamad, Maruful Haque Ansari (2022). Analysis and Implementation of Cascaded Multilevel Inverter Topologies. International Journal of Research in Engineering and Science (IJRES). ISSN (Online): 2320-9364, ISSN (Print): 2320-9356
- S Mishra, MM Shadab, I Ahmad (2017). Simulation and analysis of triggering based single phase bridge type cycloconverter. Journal of Control and Instrumentation Engineering, vol 2
- Rajanish Kumar Kaushal, Dr. Tilak Thakur & Isarar Ahamad (2016). Solution of economic load dispatch problem including line losses using bat algorithm. International Journal of Electrical and Electronics Engineers. Vol 8, issue 1, pp 997-1002.
- Ahamad, I., Asim, M., Sarkar, PR, & Khan, FA (2016). Comparison of conventional PFC boost converter and bridgeless PFC boost converter. Int J Innov Res Electr Electron Instrum

Control Eng , 4 (5).

- Parveen, H., Asim, M., & Ahamad, I. (2016). Efficiency analysis of bridgeless PFC boost converter. *Int. J. Sci. Res. Dev*, 4(01).
- Prabhat Ranjan Sarkar, Faizan Arif Khan, Isarar Ahamad (2015). Performance enhancement of Multilevel Inverter in PV system with new topology. *International Journal of Advance Engineering and Research Development*. Vol 1, issue 1, 301-307
- Isarar Ahamad, rajanish kumar kaushal (2015). Study on Combined Economic Emission Dispatch of Thermal - Hydro power Generation Systems. *IJEEE*, vol 7, issue 1.
- Khan, Fahad, and Isarar Ahamad. "Modular Multilevel Converter-based HVDC System Under Fault Conditions and Fault Detection." *International Journal of Engineering Research & Technology (IJERT)*, ISSN: 2278-0181, Vol. 10 Issue 06, June-2021.
- Isarar Ahamad, Mohd. Amir "FACTS Devices in Multi Machine Systems for Optimal Placement" *International Journal of Research and Development in Applied Science and Engineering (IJRDASE)*. Volume 20 Issue 2, Pages 5.

BOOK CHAPTERS

- I Ahamad, AJ Ansari (2021). Nine-Step Multilevel Inverter Output Analysis Using the EP Approach. *Lecture Notes in Electrical Engineering* book series (LNEE, volume 723). (SCOPUS) https://link.springer.com/chapter/10.1007/978-981-33-4080-0_384.
 - Ahamad, I., Asim, M., Verma, A., Huzafa, M. (2019). Fault Detection in AC Transmission System Using Multiple Signal Classification Technique. *Lecture Notes in Electrical Engineering*, vol 553. Springer, Singapore. (SCOPUS) https://doi.org/10.1007/978-981-13-6772-4_1 Asim, M., Khan,
 - I Ahamad, AJ Ansari, A Iqbal (2021). THD Analysis of 5-Level, 7-Level and 9- Level CHB— Multilevel Inverters Using SPWM Switching Approach. *Lecture Notes in Electrical Engineering* book series (LNEE, volume 723) (SCOPUS) https://link.springer.com/chapter/10.1007/978-981-33-4080-0_69
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