

# Dr. Mohmmad Ahmad

Mohalla Choudhriyan Near Kotwali

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## EDUCATIONAL QUALIFICATIONS:

- **Ph. D** from Department of Electrical Engineering, Jamia Millia Islamia, New Delhi in 2021.  
**Title of Ph.D Thesis:** Development of an Enhanced Power Quality Inverter for Stand-alone & Grid connected PV system
- **M. Tech** (Power System & Drives) from AMU Aligarh in 2012 with **80.3 %**.
- **B. Tech** (Electrical Engineering) from AMU Aligarh in 2010 with **8.986 CPI**.
- Intermediate (PCM) from UP Board in 2005 with **73.4 %**.
- High School from UP Board in 2003 with **67.5 %**.

## TEACHING EXPERIENCE:

- Currently Working at **Rajkiya Engineering College Bijnor** as **Assistant Professor** in Department of Electrical Engineering from 08/12/2017 onwards.
- Worked as **Assistant Professor** in **Noida Institute of Engineering & Technology (NIET), Greater Noida (UP)** from 02/01/2013 to 07/12/2017.

## RESEARCH PUBLICATIONS:

### Journals:

- Iram Akhtar, Sheeraz Kirmani, **Mohmmad Ahmad**, Sultan Ahmad, “Average Monthly Wind Power Forecasting using Fuzzy Approach”, IEEE Access, Feb 2021.
- **Mohmmad Ahmad**, Sheeraz Kirmani, “Performance Analysis of LMS based control algorithm for power quality improvement in three phase grid connected system for linear/non-linear load”, International Journal of Power Electronics and Drive System (IJPEDS), Vol. 10, No. 4, December 2019, pp. 1944-1950.
- **Mohmmad Ahmad**, Sheeraz Kirmani, “Harmonics Analysis Of A SPV Based Stand-alone and Grid Connected Multilevel Inverter With Improved Power Quality at Different Load”, International Journal of Scientific & Technology Research, Volume 8, Issue 10, pp. 152-160, October 2019.
- **Mohmmad Ahmad**, Sheeraz Kirmani, “Performance Analysis of a Solar PV based Grid Tied Multilevel Inverter Scheme for Linear and Non Linear Load”, International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-3, September 2019, pp. 400-405.
- **Mohammad Ahmad**, B. H. Khan and Anil Kumar Jha, “Comparative Analysis of Two Inverter Topologies Considering Either Battery or Solar PV as DC Input Sources”, IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE), Volume 11, Issue 5 Version-II 2016, PP 121-134.

- **Mohammad Ahmad** and B. H. Khan, “Simulation and Analysis of a New Grid Connected Solar Inverter”, Scholars Journal of Engineering and Technology (SJET) 2014, pp. 320-325.
- **Mohammad Ahmad** and B. H. Khan, “Design and Evaluation of Solar Inverter for Different Power Factor Loads”, Energy and Power Engineering Journal, September 2012, Scientific Research USA, Vol. 4, No. 5, pp. 324-329.

### Conferences:

- Avinash Maurya, Udit Bisht and **Mohammad Ahmad**, “Solar Power: Indian Scenario and its performance Analysis with AC Loads for Harmonic Reduction”, International conference on Recent Advances in Science and Engineering (RASE 2021), on February 26-27, 2021 at REC Sonbhadra, UP.
- Vishal Singh Janmajay, **Mohammad Ahmad**, “Solar Energy: History, Working and its Indian and World Scenario”, International Conference on “RECCON 19”, on 27-28 November, 2019 at Rajkiya Engineering College, Ambedkar Nagar, UP.
- Vishal Singh Janmajay, **Mohammad Ahmad**, “Wind Energy: Generation, Technology and its World Energy Potential”, International Conference on “RECCON 19”, on 27-28 November, 2019 at Rajkiya Engineering College, Ambedkar Nagar, UP.
- Prateek Kumar Upadhyay, Akshay Pratap, **Mohammad Ahmad** and Suneel Kumar, “Harmonics Analysis of a Cascaded H-Bridge Inverter with Variation of Inverter Stages”, International Conference on “RECCON 19”, on 27-28 November, 2019 at Rajkiya Engineering College, Ambedkar Nagar, UP.
- Prateek Kumar Upadhyay, **Mohammad Ahmad** and Anil Kumar, “A Comparison of Conventional and Non-Conventional Energy Resources with World Energy Potential”, International Conference on “RECCON 19”, on 27-28 November, 2019 at Rajkiya Engineering College, Ambedkar Nagar, UP.
- Lov Kumar Singh, Praveen Kumar Singh, **Mohammad Ahmad**, Anil Kumar, “Analysis of a Three Phase Induction Motor with Different AC supply”, International Conference on “RECCON 19”, on 27-28 November, 2019 at Rajkiya Engineering College, Ambedkar Nagar, UP.
- Praveen Kumar Singh, Lov Kumar Singh, **Mohammad Ahmad**, Suneel Kumar, “Analysis of a DC Motor with DC to DC Chopper Fed Supply”, International Conference on “RECCON 19”, on 27-28 November, 2019 at Rajkiya Engineering College, Ambedkar Nagar, UP.
- Satya Prakash Satyarthi, Arvind Kumar, **Mohammad Ahmad**, Abhishek Chauhan, “Smart Grid: Basic concepts, Merits, Technology and future Challenges”, International Conference on “RECCON 19”, on 27-28 November, 2019 at Rajkiya Engineering College, Ambedkar Nagar, UP.
- Satya Prakash Satyarthi, **Mohammad Ahmad**, “Simulation and Performance of different modes of inverter with and without filter”, International Conference on “RECCON 19”, on 27-28 November, 2019 at Rajkiya Engineering College, Ambedkar Nagar, UP.
- Arvind Kumar, Satya Prakash Satyarthi, **Mohammad Ahmad**, Abhishek Chauhan, “Wind Energy System: Technology, its Modeling and Simulation in MATLAB”, International Conference on “RECCON 19”, on 27-28 November, 2019 at Rajkiya Engineering College, Ambedkar Nagar, UP.

- **Mohammad Ahmad**, Anil Kumar Jha, Sitaram Jana and Kishore Kumar, “ Simulation and Performance analysis of a grid connected Multilevel Inverter considering either battery or solar PV as DC Source”, IEEE Conference on “CICT 2017”, ABES Ghaziabad, 9-10 Feb, 2017.
- **Mohammad Ahmad** and B. H. Khan, “New Approaches for Harmonics Reduction in Solar Inverters”, IEEE Conference on “Student’s Conference on Engineering and Systems (SCES 2012)”, Motilal Nehru National Institute of Technology (MNIT) Allahabad, March 2012.
- **Mohammad Ahmad** and B. H. Khan, “Comparison and Simulation of Two New Schemes in Solar Inverters for Harmonic Reduction”, 2012 IEEE Fifth power India conference, DBCRUST, Murthal, Delhi-NCR, 19-22 Dec, 2012.
- Abu Tariq, **Mohammad Ahmad**, Mohammed Aslam Husain and Mohd. Tariq, “Simulation and Study of a grid connected Multilevel Converter (MLC) with varying DC input”, IEEE Conference on Environment and Electrical Energy International Conference IEEEIC 2011, Italy, Rome May 2011.
- **Mohammad Ahmad** and Mohammed Aslam Husain, “Simulation and Analysis of a Multilevel Converter (MLC) for grid applications”, National Conference on Power Energy Instrumentation and control PIECON 11, Aligarh Muslim University, Feb 11.

#### **AREA OF RESEARCH:**

Power Electronics & Drives, Renewable Energy Sources, Integration of Renewable Energy Sources to Electric Grid, Distributed Power Generation.

#### **INVITED TALKS/ GUEST LECTURES TAKEN:**

- A Guest lecture taken on the topic “**Solar Energy: Generation, Technology and its Grid Integration**” in International conference on “**RECCON-19**” at REC Ambedkar Nagar on November 28, 2019.

#### **WORKSHOP/ SEMINAR / SHORT TERM COURSES ORGANISED/ATTENDED:**

- Attended a two week Faculty Development Program/ Refresher Course on “**Emerging Accessible Technologies for Teachers in Higher Education**” organized by Maitreyi College, University of Delhi, under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT) of Ministry of Education from March 20, 2021 to April 03, 2021.
- Attended an AICTE Training and Learning Academy (ATAL) academy online FDP on “**Electrical and Computer Engineering**”, at NIT Patna on Feb 8-12, 2021.
- Attended an AICTE Training and Learning Academy (ATAL) academy online FDP on “**Electric Vehicles**”, at Manipal University Jaipur on Feb 1-5, 2021.
- Attended a two week “**Professional Development Training**” organized by REC Bijnor in association with BEC Bagalkot on September 10-23, 2020.
- Attended a Training Program on “**Nalanda E-Consortium**” organized by MyLOFT and AKTU on August 25-27, 2020.
- Attended an online FDP on “**Power Quality and Reactive Power Management**” organized by Delhi Technological University, Delhi in association with Clariant Power System Ltd., Pune on July 06-10, 2020.

- Attended an online FDP on “**Real Time Hardware in the loop (HIL) Simulation for Power Electronics & Power System**” organized by REC Mainpuri in association with OPAL-RT Technologies on June 22-26, 2020.
- Attended an ICT based one week FDP on “**Real World Applications of Microcontrollers**” organized by NITTTR Chandigarh on June 15-19, 2020.
- Participated in a webinar on “**Effective Research Paper Writing**” organized by REC Bijnor on May 23, 2020.
- Attended an ICT based one week FDP on “**Modeling and Simulation using MATLAB**” organized by NITTTR Chandigarh on May 18-22, 2020.
- Participated in online workshop on “**Interactive Teaching and Experimental Learning using MATLAB and Simulink**” delivered by Mathworks Expert organized by SPIU Uttar Pradesh on May 13, 2020.
- Attended a webinar on “Grid Connected PV Systems” organized by Integral University, Lucknow.
- Attended an online one week FDP on “**Moodle: Learning Management System**” organized by Department of Electronics Engineering, AMU Aligarh in association with Spoken Tutorials, IIT Bombay, on May 27-31, 2020.
- Coordinated one week Short term training program on “**Application of Power Electronics in Electrical Engineering**” on February 03-07, 2020 at REC Bijnor.
- Coordinated one week Student Development Program on “**Role of Renewable Energy Resources in Enhancing Power Generation capacity**” on February 03-07, 2020 at REC Bijnor.
- Attended a workshop on “**SPOC Felicitation 2020**” at IIT Kanpur Outreach center, Noida conducted by IIT Kanpur on 01 Feb, 2020.
- Organizing Committee Member in “**International Conference on Recent Trends in Electrical, Electronics and Computer Science Engineering**”, organized by UNSIET, Deokali, on January 10-11, 2020.
- Coordinated one week Start-up Program on “**Innovate-2-Inspire (Aim to nurture startup/ Entrepreneurial skills in budding Engineers)**”, on November 25-29, 2019 at REC Bijnor.
- Attended one week short term training program on “**Entrepreneurship and Business Model**” on November 25-29, 2019 at REC Bijnor.
- Coordinated one week workshop on “**PLC, SCADA & Hardware Interfacing with Arduino**” on November 04-08, 2019 at REC Bijnor.
- Attended one week STC on “**Recent Trends in Power system generation, operation & control**” on August 27-31, 2019 at REC Bijnor.
- Organized a Student development program on “**Electrical System Modernization and its impact on society**” on August, 27-31, 2019 at REC Bijnor.
- Attended a FDP on “**Technology enabled Teaching Learning and Research**” on July 15-19, 2019 at REC Bijnor.
- Attended Training on “**Productivity Enhancement Program**”, Conducted by Art of Living, on July, 07-12, 2019, at REC Bijnor.
- Attended FDP on “**Advanced Pedagogy, IPR, Entrepreneurship and skill set**” conducted by ESCI on August 30, 2018 at REC Bijnor.
- Attended FDP on “**Active Learning for Senior Faculty**” from July 02, 2018 to July 06, 2018 at IIT Kanpur.
- Attended a workshop on “**Teaching-Learning-Evaluation (TLE) Systems and their Excellence**” on April 10-11, 2018 at REC Bijnor.
- Attended a workshop on “**Outcome based education**” on March 23-24, 2018 at REC Bijnor.

- Attended a workshop on **PLC & SCADA** on January 28, 2017 conducted by Automation Engineers A.B. Pvt. Ltd Noida at NIET Greater Noida.
- Attended a short term course on “**Matlab & Its Hardware Interface**” on Jan 11, 2016 to Jan 15, 2016 through ICT conducted by NITTTR Chandigarh at NIET Greater Noida.
- Attended an FDP on “**Evolutionary Optimization Technique**” on Dec 19 & 24, 2014 at NIET Greater Noida.
- Attended an Industrial Training Program on “**Electricity Transmission & Distribution Systems**” on August 20-21, 2016 conducted by NPTI Faridabad.
- Attended FDP on “**Matlab Techniques**” on September 17, 2016 at NIET Greater Noida.

### **OTHER SKILLS/ACTIVITIES PERFORMED:**

- Received Appreciation certificate as SPOC from EICT Academy IIT Kanpur, for MOOCs Courses during Sep 2020 to Feb 2021.
- Received Appreciation certificate as SPOC from NPTEL for passing 102 candidates from REC Bijnor during Jan-Apr 2020 Semester.
- Received Appreciation certificate for mentoring students from NPTEL.
- Reviewed several research papers in ICRP-2020, UPCON-2019, CCTES-18.
- Professional Member of **Institute for Engineering Research and Publication (IFERP)**.
- Coordinated a National level Hackathon program “**TeknoΦ’19**” Organized by Institution’s Innovation Council (IIC 2.0) held at REC Bijnor on December 04-05, 2019.
- Got Appreciation Certificate for **ACTIVE SPOC** for the session Jul-Dec 2019, Jan-Dec 2020 from SWAYAM-NPTEL.
- Coordinated the event “**Robo Race**” in “**Dr. Abdul Kalam Technical, Literary & Management Fest 2019**” organized by AKTU Lucknow at REC Bijnor during November 15-16, 2019.
- Coordinated the event “**Robo War**” in “**Dr. Abdul Kalam Technical, Literary & Management Fest 2019**” organized by AKTU Lucknow at REC Bijnor during November 15-16, 2019.
- Got **FDP certificate** from NPTEL for completing online course of **DC MICROGRID** for the session Jul- Sep 2019 with a score of 84%.
- Qualified GATE 2010 & GATE 2016 (Gate score 504).
- Good knowledge of MATLAB / SIMULINK & PSpice.

### **SUBJECT TAUGHT**

- Electric Machines
- Electric Drives
- Renewable Energy Systems
- Control System
- Basic Electrical Engineering

### **RESPONSIBILITIES (AT PRESENT)**

- Dean Academics REC Bijnor
- NPTEL Coordinator
- MOOCs Coordinator
- Warden (BH 1)
- Public Information Officer
- Nodal Officer IGRS

### **PROJECT/ DISSERTATION:**

- B. Tech Project: “Power Electronics Controller for Wind Energy Systems”
- M. Tech Dissertation: “A grid connected PV Power Conversion System”
- Ph. D Thesis: “Development of an Enhanced Power Quality Inverter for Stand-alone & Grid connected PV system”

### **PERSONAL INFORMATION:**

Father’s Name: Mr. Mohammad Abdulla  
Marital status: Married  
Date of Birth: 10/03/1988  
Permanent Address: Mohalla Choudhriyan, Near Kotwali, Siyana Buland Shahar U.P. 245412

### **DECLARATION:**

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility of correctness of the above-mentioned particulars.

**Place: Chandpur (Bijnor)**

**(Dr. Mohammad Ahmad)**