

Name of Faculty **Dr.Mahmood Shaik**

Designation Asst. Professor

Nature of Job/Appointment Contract

Date of Joining 15-07-2024

E-mail [mahmoodshaik\\_eee@cbit.ac.in](mailto:mahmoodshaik_eee@cbit.ac.in)



### Education Qualifications

### Name of the Degree

### Class

Ph.D

Doctor of Philosophy (Power System)  
**IIT Jodhpur**

Awarded

PG

M.Tech., (High Voltage Engineering)

First Class  
Distn.

UG

B.Tech., (Electrical & Electronics  
Engineering)

First Class  
Distn.

Work Experience

Teaching

**4.3 Years**

Research

**7.5 Years (Doctoral + Post doc)**

Industry

**3 Years**

Others

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Area of Specialization

Power System Protection, Microgrid, Renewable Energy, Signal processing and Machine learning Application to Power System..

Professional Memberships

➤ IEEE Member

Responsibilities held at the Institution Level:

➤ Disciplinary squad and Anti Ragging duties.

Responsibilities held at the Department Level:

➤ Class Incharge for VII Sem EEE D2.

Research Guidance:

➤ B.E/B.Tech Dissertations – 2 (Completed), 2 (In Progress)  
➤ M.E/ M.Tech Dissertations – 0

Awards Received:

1. Awarded MHRD fellowship through GATE for Masters degree during 2010-2012.
2. Awarded PHD VSS fellowship by MIETY for Doctoral program during 2015-2020.

Courses Handled at Under Graduate / Post Graduate Level.:

1. Basic Electrical Engineering.
2. Signals and Systems.
3. Electrical Circuit Analysis/ Circuit Theory.
4. High Voltage Engineering.
5. Microprocessors and Microcontrollers
6. Microcontroller and its applications
7. Basic Electrical Engineering Lab, MPMC lab, Power Systems Lab, Electrical Machines Lab, Power Electronics Lab.

National Journals – **None** International Journals – **4**

No. of Papers Published

National Conference – **None** International Conference – **5**

Projects Carried out

None

Patents/Technology Transfer

None

Invited Speaker

None

No. of Books/Chapters Published with details

None

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops.  
Other Training (**Attended and/or Organized**).

1. Attended a two-week online FDP on the topic "Digital Transformation in Power System: AI, Blockchain & Cybersecurity (DTPS-2025)" jointly organized by Electronics and ICT Academy, NIT Patna & Dayalbagh Educational Institute, by the Ministry of Electronics and Information Technology (MeitY), Government of India from 18th August – 30th August 2025.
2. Attended an online FDP of 1 week on the topic "Solar Vehicles Design and Implementation-SVDI (2024)" during 23-28 September, 2024 organized by AnnantGyan Knowledge and Skills pvt limited. Resource Person: Dr. Avik Bhattacharya, IIT BHU.
3. Attended a one-day workshop on "Stela 5.0: AI Teaching, Product Design insights and Collaborative Development strategies" organized by ECE Department, CBIT, Hyderabad on 18 July 2024.
4. Attended workshop on "Electric Vehicle Development" using Ansys at Mahindra University organized by IET on-campus Student chapter.
5. Completed Summer school on Machine learning SSML-2017 from July 18-29, 2017 organized at IIT Jodhpur, Rajasthan.
6. Completed STC on "Application of Custom Power Devices for Power Quality Improvement" from 06th October -08th October, 2016 at MNIT Jaipur, Rajasthan.
7. Attended workshop on HVDC, FACTS and Intelligent Control Techniques, HVDC-FACTS ICT 2006, BEC Bapatla, AP.
8. Attended workshop on Electrical Systems and Power Components, ESPC 2013, SACET Chirala, AP.

Details of Journal Publications/  
Conferences (**National and International**)

#### International Journals :

1. S. K. N B, S. Madichetty, C. Pannela, P. Kumar and **M. Shaik**, "An Innovative Islanding Detection Algorithm for Grid Tied Inverter Utilizing In-Circuit Magnetic Characteristics of Inductors in LCL Filters," in CPSS Transactions on Power Electronics and Applications, vol. 10, no. 1, March 2025.
2. **Shaik, Mahmood**, Abdul Gafoor Shaik, and Sandeep Kumar Yadav. "Hilbert-Huang transform and decision tree based islanding and fault recognition in renewable energy penetrated distribution system." Sustainable Energy, Grids and Networks (Elsevier) (2022): 100606.
3. **M. Shaik**, S. K. Yadav and A. G. Shaik, "An EMD and Decision Tree-Based Protection Algorithm for the Solar PV Integrated Radial Distribution System," in IEEE Transactions on Industry Applications, vol. 57, no. 3, pp. 2168-2177. (2021)
4. Chawda, Gajendra Singh, Abdul Gafoor Shaik, **Mahmood Shaik**, Sanjeevikumar Padmanaban, Jens Bo Holm-Nielsen, Om Prakash Mahela, and Palanisamy Kaliannan. "Comprehensive review on detection and classification of power quality disturbances in utility grid with renewable energy penetration." IEEE Access 8 (2020): 146807-146830.

#### International Conferences :

1. M. Shaik, A. G. Shaik and S. K. Yadav, "S-Transform Based Protection Scheme for Distribution System Integrated with Solar Power Plant," 2019 2nd International Conference on Smart Grid and Renewable Energy (SGRE), Doha, Qatar, 2019, pp. 1-6.
2. M. Shaik, S. K. Yadav and A. Gafoor Shaik, "Fast Protection Scheme For Distribution System using Hilbert-Huang Transform," 2019 IEEE 16th India Council International Conference (INDICON), Rajkot, India, 2019, pp. 1-4.
3. M. Shaik, S. K. Yadav and A. G. Shaik, "Distribution Feeder Protection Using Uncorrelated Symmetrical Dot Patterns," TENCON 2019 - 2019 IEEE Region 10 Conference (TENCON), Kochi, India, 2019, pp. 1875-1880.
4. M. Shaik, S. K. Yadav and A. G. Shaik, "An EMD Based Protection Scheme for Distribution System," 2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, India, 2018, pp. 17-22.
5. M. Shaik, M. N. Rao and S. A. Gafoor, "A wavelet based protection scheme for distribution networks with Distributed Generation," 2012 International Conference on Emerging Trends in Electrical Engineering and Energy Management (ICETEEEM), Chennai, India, 2012, pp. 33-37.