Dr. Bikash Das

Career Objective

A satisfying academic career where professional skills, teaching ability, and research experience can be applied effectively while continuing to gain knowledge and experience.

Educational Qualifications

Examination	Institution	Board/University	Year of Passing
Madhyamik Examination	Kanaipur High School	West Bengal Board of Secondary Education	2004
Higher Secondary Examination	Uttarpara Amarendra Vidyapith	West Bengal Council of Higher Secondary Education	2006
B.Tech in Electrical Engineering	Kalyani Government Engineering College	West Bengal University of Technology	2010
M.Tech in Power and Energy System (Electrical Engineering)	IIT Kharagpur	IIT Kharagpur	2013
Ph.D. in Electrical Engineering	IIT (ISM) Dhanbad	IIT (ISM) Dhanbad	2021

Achievements

- GATE Rank 355 in Electrical Engineering in 2010.

- Received the POSOCO Power System Award 2014 for a top 10 Master's thesis in Power Systems in India.

Subjects of Interest

Power Systems, Renewable Energy, High Voltage Engineering, Electrical Machines, and Digital Electronics.

Software Skills

Proficient in CircuitMaker, OrCAD, PSpice, MATLAB, and PSCAD.

Academic Projects

B.Tech Project

Measuring the light intensity with the help of 8085 microprocessor and 8051 microcontroller.

M.Tech Project

Modeling and simulation of split-shaft micro-turbine generator and diesel generator systems for islanded and grid-connected modes of operation.

Ph.D. Thesis

Operational Strategies of Distribution Systems Considering Dynamic and Static Aspects of Distributed Generations.

Publications

Journal Articles

1. Das, B., Mukherjee, V., and Das, D., "Student psychology based optimization algorithm: A new population based optimization algorithm for solving optimization problems," *Advances in Engineering Software*, vol. 146, article 102804, 2020.
2. Das, B., Mukherjee, V., and Das, D., "DG placement in radial distribution network by symbiotic organisms search algorithm for real power loss minimization," *Applied Soft Computing*, vol. 49, pp. 920-936, 2016.

3. Das, B., Mukherjee, V., and Das, D., "Optimum DG placement for known power injection from utility/substation by a novel zero bus load flow approach," *Energy*, vol. 175, pp. 228-249, 2019.
4. Das, B., Mukherjee, V., and Das, D., "Optimum placement of biomass DG considering hourly load demand," *Energy and Climate Change*, vol. 1, article 100004, 2020.
5. Das, B., D. Das, "Dynamic performances of split-shaft microturbine generator (MTG) system in stand-alone mode and when connected to a rural distribution network," *Distributed Generation and Alternative Energy Journal*, vol. 29, no. 4, pp. 25-48, 2014.
6. Das, B., Barik, S., Mukherjee, V., and Das, D., "Application of mixed discrete student psychology-based optimisation for optimal placement of unity power factor distributed generation and shunt capacitor," *International Journal of Ambient Energy*, vol. 43, no. 1, pp. 8847-8860, 2022.
7. Das, B., Barik, S., Mukherjee, V., and Das, D., "Effect of zero bus load flow on network reconfiguration of distribution network," *International Journal of Ambient Energy*, vol. 44, no. 1, pp. 626-653, 2023.
8. Rajak, S., Saha, M., Das, B., and Chaduvula, H., "Optimum enhancement of voltage profile of the droop controlled islanded microgrid by incorporating shunt capacitors and active power DGs using PSO and SPBO algorithm," *Next Energy*, vol. 9, article 100470, 2025.
9. KP, A. R., Barik, S., Swain, S., and Das, B., "A novel combined KCL-KVL based zero bus distribution load flow with pre-defined energy contract scenarios and different load types," *e-Prime: Advances in Electrical Engineering, Electronics and Energy*, 2025.
10. Das, B., and Mukherjee, V., "Dynamic modeling and simulation of diesel generator for stand-alone and grid-connected mode of operation," *Alternative Energy and Distributed Generation Journal*, vol. 1, no. 1, pp. 6-36, 2019.

Conference Publications and Book Chapters

1. Das, B. and Sengupta, T. K., "Economic load dispatch using PSO and TLBO," *Michael Faraday IET International Summit 2015*, p. 37, 2015.

2. Das, B., Barik, S., Mukherjee, V., and Das, D., “Optimization algorithm for renewable energy integration,” in *Intelligent Renewable Energy Systems*, 2022.
3. Das, B., Barik, S., Mukherjee, V., and Das, D., “Dynamic analysis of split-shaft microturbine for stand-alone and grid-connected mode of operation,” *2021 IEEE International Conference on Electronics, Computing and Communication Technologies*, 2021.
4. Mukherjee, S., Bandyopadhyay, S. K., Chattopadhyaya, A., and Das, B., “Study of dynamic responses of an interconnected power system using a zero-order hold circuit,” in *Foundations and Frontiers in Computer, Communication and Electrical Engineering*, 2016.
5. Maji, A., Chattopadhyaya, A., Das, B., and Chattopadhyay, S., “Assessment of different transient conditions in a radial feeder by THD- and DWT-based skewness analysis,” in *Foundations and Frontiers in Computer, Communication and Electrical Engineering*, 2016.

Work Experience

- Worked as Assistant Professor in the Department of Electrical Engineering at Supreme Knowledge Foundation Group of Institutions from 2 July 2013 to 27 June 2015.
- Worked as Assistant Professor in the Department of Electrical Engineering at Government College of Engineering and Textile Technology, Berhampore from 29 June 2015 to 17 November 2025.
- Currently serving as Assistant Professor in the Department of Electrical Engineering at Kalyani Government Engineering College, Kalyani, Nadia.

Declaration

Date:

Place:

Signature

Dr. Bikash Das