



Dr. M. S. PRABHU, M.E., Ph.D.
Assistant Professor (OG) - EEE

PROFESSIONAL LINKS

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Google Scholar ID: [Dr. Prabhu M S - Google Scholar](#)

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EXPERIENCE

Academic: 2.5 years

AREA OF SPECIALIZATION

- Power System Protection and Switchgear
- Electrical Machines - I & II
- Transmission and Distributions,
- Modelling and Analysis of Electrical Machines,
- Electric Circuit Analysis
- Wind and Solar Power System

RESEARCH INTEREST

- Power Systems Protection
- Cyber-Physical system
- Artificial Intelligent/Machine Learning and IoT Applications in Power System
- Integration of Large-Scale Renewable Energy Sources with FACTS Devices

JOURNAL PUBLICATIONS

SCI & WoS:

- Prabhu, M. S. (2026). A review of power swing blocking and unblocking schemes for digital distance relays. *Measurement*, 123232. DoI: 10.1016/j.measurement.2026.123232. [Q1, IF: 6.1], SCIE and Scopus Indexed. Annexure -1
- N. H. Charan, A. Bandyopadhyay, P. Roy, M. A. Babita and P. M. S, "A Single-Phase Cascaded H-bridge Multilevel Inverter with Voltage Boost Ability: Modulation and Analysis," in *IEEE Transactions on Industry Applications*, Vol. 60, no. 3, pp.3978-3988, 2024, DOI: 10.1109/TIA.2024.3351796. [Q1, IF: 4.4], SCIE Scopus Indexed. Annexure -1
- Prabhu MS, Biswas S, Nayak PK, Abdelaziz A and El-Shahat A, "An intelligent protection scheme for series-compensated transmission lines connecting large-scale wind farms." *Front.*

Energy Res. 11:1141235. DOI: 10.3389/fenrg.2023.1141235, Volume 11 - 2023. [Q2, IF: 3.4], SCIE and Scopus Indexed. Annexure -1

- Prabhu M. S., P. K. Nayak, G. Pradhan, “Detection of three-phase fault during power swing through zero frequency filtering,” *International Transactions on Electrical Energy Systems*, Vol.29, e2700, 2019. DOI: 10.1002/etep.2700 [Quartile: Q3, Impact Factor: 2.639], SCIE and Scopus Indexed. Annexure -1

BOOK CHAPTER PUBLISHED

- M. S. Prabhu and P. K. Nayak, “A state-of-the-art review on synchrophasor applications to power network protection,” *Book title: Advances in Power Systems and Energy Management, Springer nature*, Singapore, 2018, Chapter DOI: 10.1007/978–981–10–4394–9 52. Scopus Indexed.

INTERNATIONAL CONFERENCE PROCEEDINGS

- Akshay Kumar, Prabhu M. S., Aldrich Zeno. “Small Signal Analysis of Gate Controlled Series Capacitor based Tidal Generation using Hybrid Crow Search-Nelder Mead Algorithm”, *2023 IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC)*, KIIT Bhubaneswar. (10-13) December 2023. Scopus Indexed
- Prabhu, M. S., and P. K. Nayak. “A state-of-the-art review on synchrophasor applications to power network protection,” *1st Springer International conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy*, Sikkim Manipal Institute of Technology, Sikkim. (17-18) December 2016. Scopus Indexed

PATENT WORK (Under Preparation)

- Patent Application Number: 202541123934 (Filed Date: 25.12.2025. Status: Published) Title: MACHINE LEARNING–DRIVEN ADAPTIVE ENERGY OPTIMIZATION ARCHITECTURE FOR ENHANCING ELECTRIC VEHICLE BAT
- Patent Application Number: 202341058822 (Filed Date: 01.09.2023. Status: Under Examination) Title: TYRE FIT BAND

COURSES CERTIFIED

- Secure Elite Silver grade for the NPTEL course on “DIGITAL PROTECTION OF POWER SYSTEM” during Jan-Mar 2026.
- Secure Elite grade for the NPTEL course on “A BASIC COURSE ON ELECTRIC AND MAGNETIC CIRCUITS” during Jul-Oct 2025.
- Actively participated online webinar on DIGITAL SUBSTATION AND PROCESS BUS CONCEPT INTRODUCTION delivered by Schneider Electric, 10 Oct, 2025.
- Successfully completed udemy online course on Raspberry Pi based SCADA System, Dec 2024.
- Successfully completed online short-term course on “ENABLING POWER ELECTRONICS TECHNOLOGIES FOR EVs ECOSYSTEM” from 05th – 09th Feb 2024, at NIT Uttarakhand.
- Participated in “INTELLECTUAL PROPERTY RIGHTS” webinar under “National Intellectual Property Awareness Mission” organized by the Ministry of Industry and Commerce, India. (2023)
- Successfully completed a six-week online professional training (14 June – 09 August 2023) program on “PYTHON WITH MACHINE LEARNING” organized by NI LabVIEW innovation cell, under the centre of excellence, National Instruments Innovations Centre.
- Actively participated a webinar on “CYBER SECURITY OF SMART GRID” by Dr. Astha Chawla, Lead Researcher, Cyber Security Research Group, Siemens, Bengaluru, 2023

- Actively participated in online “FDP on Power System Design & Analysis using Dig SILENT Power Factory Software” organized by DELLSOFT Technologies Pvt. Ltd. New Delhi. 2023.
- Secure Elite grade for the NPTEL course on “Power System Protection” during Oct 2022
- Attended the workshop on ALSTOM’s Distance Relays and Substation Automation, Anna University, College of Engineering, Guindy, Chennai. (17 – 18 February 2016)
- Attended the workshop on Selected Topics in Flexible Power Transmission & Protection, Central Power Research Institute, Bangalore. (14 – 18 September 2015)
- Attended the workshop on Fundamentals of PSCAD and General Applications, Nayak Power System Pt. Ltd, Bangalore.
- Completed the GIAN course on Data Analytics for Operational Research at IIT Kanpur. (14 – 18 November 2018)
- Completed the GIAN course on Insight into fuzzy modelling: Reasoning in fuzzy natural logic and its applications at IIT(ISM) Dhanbad. (23 – 27 October 2017)
- Completed the GIAN course on Synchronized Phasor Measurements for Enhancing Situation Awareness in Smart Grid at BIT Mesra. (09 – 13 October 2017)

ACHIEVEMENTS AND AWARDS

- Received MHRD scholarship during Ph.D., Govt. of India (2015-2020).
- Secure a first-prize winner in a national level college technical paper presentation at AC Tech, Karaikudi.
- Awarded Chief Minister’s GOLD MEDAL for academic proficiency in D.E.E.E course.

PROFESSIONAL MEMBERSHIP

- IEI – Associate Member
- IEEE – Member