

Smart Grid Communications

Online Tutorial Series

by Dr Ankush Sharma

Jointly organized by IEEE Power and Energy Society (PES) Singapore Chapter and National University of Singapore

11-12 March 2024

Part 1 - Monday, 11th March 2024, 7-8:30 pm (SGT)

Overview of power system automation, Smart Grid Domains, Smart Grid Architecture, Smart Grid Measurement Technology

This tutorial offers a concise overview of power system automation and smart grid technology. It covers smart grid domains, architecture, and provides essential insights into the evolving landscape of modern energy systems. Additionally, the tutorial highlights the importance of smart grid measurement technology in enabling efficient and sustainable energy management practices. Through a combination of theoretical insights and practical examples, participants will gain a deeper understanding of the advancements shaping the future of power systems and grid modernization efforts.

Part 2 - Tuesday, 12th March 2024, 7-8:30 pm (SGT)

Smart Grid Communication technology, Smart Grid Protocols, Smart Grid Interoperability Standards

The second part of the tutorial will cover smart grid communication technology, protocols, and interoperability standards. Participants will gain insights into the fundamental principles underlying smart grid communication, along with an understanding of the diverse range of protocols utilized in modern grid systems. Additionally, the tutorial will delve into the importance of interoperability standards in facilitating seamless integration and efficient operation of smart grid infrastructure.

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FREE for IEEE PES Members & IEEE Student Members



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Speaker Bio

Dr Ankush Sharma is an accomplished academic and researcher, currently serving as an Associate Professor in the Department of Electrical Engineering and Adjunct Faculty in the Department of Sustainable Energy Engineering at the Indian Institute of Technology Kanpur (IIT Kanpur), India. In addition to his teaching and research responsibilities, Dr Sharma serves as the Professor in charge of Innovation and Incubation at the Startup Incubation and Innovation Centre (SIIC). In this capacity, he provides guidance and mentorship to aspiring entrepreneurs, facilitating the translation of cutting-edge research into real-world solutions.

Dr Sharma's research interests span a wide range of areas within electrical engineering, including Power System State Estimation, Wide Area Monitoring Systems (WAMS), integration of IT applications in power systems, advancement of smart grid and smart city technologies, real-time simulation techniques, and Distribution Management System. His contributions to the field have been recognized through numerous publications in esteemed journals and conferences, showcasing his dedication to advancing knowledge and driving impactful research outcomes.