

Power Electronic Microgrids Short Course January 23-25, 2019

COURSE BENEFITS

Understand the challenges and state-of-the-art solutuions when deploying and effectively managing microgrids.

The integration of distributed generation, load balancing and energy storage form the model of a microgrid. Applications include large scale data centers, electric ships and commercial/industrial buildings, bringing the benefits of high efficiency, power quality, flexibility, stability, and reliability. Power Electronics (PE) have become an important part of modern microgrids. Not only are many storage and distributed generation systems connected to the microgrid via PE converters, many of the modern loads use some sort of power conversion to ensure high-efficiency and high-performance operation.

This course is targeted towards professionals with a background in engineering, including project engineers, program managers, system integrators, and utility engineers.

Topics

- State-of-the-Art Microgrids
- Components & Energy Resources
- Protection & Coordination
- Primary & Secondary Controls
- Energy Management
- · Cost-Benefit Analysis
- Field Implementation
- Future of Microgrids

Instructors

Mesut Baran, Ph.D. | NC State University Ning Lu, Ph.D. | NC State University David Lubkeman, Ph.D. | NC State University Srdjan Lukic, Ph.D. | NC State University Kevin Meagher | CEO Power Analytics Corp. Aleksandar Vukojevic | Duke Energy Len White, Ph.D. | NC State University

Location

PowerAmerica Institute North Carolina State University 930 Main Campus Drive, Suite 200 Raleigh, NC 27606

Registration deadline is December 20, 2018

Course Fee

\$900 FREEDM Member \$1200 Non-Member Covers: Materials, break refreshments and lunches

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Register at https://www.freedm.ncsu.edu/event/short-course-microgrids/