

## ECE6663 — Distributed Generation Systems

Instructor:

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Introduction:

Benefits and limitations of distributed generation systems; classification of small generating systems; principles of operation and equivalent circuits of fuel cells, solar cells, micro-turbine, reciprocating engines, wind turbines, and gas turbines; interconnection with the electric utility issues; fault condition assessment (unsymmetrical faults - open-lines); reactive power support; power quality issues.

The ref. book:

G.W. Massey, "Essentials of Distributed Generation Systems," Jones and Bartlett Publishers, 2010

Prerequisite would be:

ECE 5613 or equivalent

Grading policy:

10% for HW's. 30% for midterm exam, and 60% for the Final.