Master of Science Program in Power and Energy Systems

Department of Electrical and Computer Engineering
Newark College of Engineering
New Jersey Institute of Technology
WHAT DOES THE PROGRAM COVER?
The master of science in Power and Energy Systems program involves foundation and recent advances in power systems, power control, distribution and management systems, renewable energy sources, solar-cells, fuel-cells and other advances in energy production, control and management systems.

WHAT COURSES ARE AVAILABLE?
Project/Thesis: A thesis (6 credits) or project (3 credits) is required in addition to the coursework.

Core Courses (12 credits are required)
- ECE 601 Linear Systems
- ECE 610 Power System Steady-State Analysis
- ECE 612 Computer Methods Applied to Power Systems
- ECE 616 Power Electronics

Electives: (12 credits with thesis or 15 credits with project are required; only selected courses are listed here)
- ECE 611 Transients in Power Systems
- ECE 613 Protection of Power Systems
- ECE 660 Control Systems I
- ECE 710 Economic Control of Interconnected Power Systems (new)
- CHE xx1 Fuel Cell Technologies
- CHE xx2 Nuclear Power Technologies
- ECE 698-1 Wind Turbine Generation Technology (1 Cr.)
- ECE 698-2 Deregulation of the Electric Utility (1 Cr.)
- ECE 698-3 Utility Industry and Environmental Impact (1 Cr.)
- ME 607 Advanced Thermodynamics
- ME 610 Applied Heat Transfer
- ME 611 Dynamics of Incompressible Fluids
- EnE 671 Environmental Impact Analysis

IS PART TIME STUDY AVAILABLE?
Evening and weekend courses accommodate the working professional, who may pursue the degree part time.

ARE THERE OPPORTUNITIES TO PARTICIPATE IN RESEARCH?
NJIT offers extensive opportunities for students to participate in faculty research projects with more than $75 million annually in grant support.

IS FINANCIAL AID AVAILABLE?
Financial support for full-time students in the MS program is extremely limited. Full-time domestic and international students may be eligible to receive the Provost Fellowship. For further information on financial aid, visit www.njit.edu/financialaid/graduate/index.php

NJIT students can also offset educational costs by participating in the Cooperative Education Program, which provides an opportunity to gain practical work experience in a professional environment. A co-op student works on a fulltime or part-time basis for a company that has agreed to hire, train, and pay the student during a specific co-op work cycle. www.njit.edu/CDS/studentservices/coop.htm

FOR FURTHER INFORMATION
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TO APPLY:
Office of Graduate Admissions
1-800-925-NJIT
www.njit.edu/admissions/graduate/howtoapply/index.php