ELE847 – Alternative Energy Systems

- **Course Outline**

- **Key Knowledge to Be Acquired**
  The key knowledge to be acquired includes reference frame theory, dynamic models of DC and AC machines, modeling of power converters, control of advanced DC and AC drives, and design of high-performance industrial drive systems.

- **Key Skills to Be Mastered**
  In-depth understanding of dynamic model of electric machines and variable-speed drive systems; Analytical skills for analysis of drive system dynamic performance; Simulation skills for effective design of commercial electric drive products.

- **Potential Careers**
  Careers as R&D and applications engineer for development, design, manufacturing and application of high-performance drive systems.

- **Potential Employers**

- **Graduate Studies**
  Ryerson University, University of Toronto, McGill University, University of Waterloo, University of Western Ontario, University of British Columbia, University of New Brunswick, and University of Calgary have strong graduate programs in power engineering.