ELE746 – Power Systems Analysis

• **Course Outline**
  
  [http://www.ee.ryerson.ca/undergraduate/dcd/ele746.html](http://www.ee.ryerson.ca/undergraduate/dcd/ele746.html)

• **Key Knowledge to Be Acquired**
  Power Transformers, Generators, Transmission line parameters, per unit system of calculations, Power system network equations and solutions, load flow studies, symmetrical fault studies and sizing Circuit Breakers.

• **Key Skills to Be Mastered**
  Use of ETAP (Electrical Transient Analyzer Program), which power industry use for analysis and design of power system. Students are given individual projects on load flow and short circuit analysis.

• **Potential Careers**
  Electrical Engineering in power industry, manufacturing and mining.

• **Potential Employers**
  Hydro One, OPG (Ontario Power Generation), Toronto Hydro, Ontario Power Authority, consulting companies, mining, all municipalities’ Hydro, new Green energy (Solar power and Wind turbine) industries.

• **Graduate Studies**
  Ryerson, Toronto, Waterloo, Western, McMaster etc., have strong graduate programs in Power Systems and power electronics.