



**Department of Electrical and Computer Engineering
Term Adjunct Position
Academic Year 2017-18**

Posting Date: 11 September 2017
Closing Date: 02 October 2017

The Department of Electrical and Computer Engineering at Queen's University requests applications from suitable qualified candidates interested in teaching the following undergraduate course in the 2015-16 academic session.

Winter Term Course: January 1, 2018 – April 30, 2018

Anticipated course enrolment: 88

Course Description

ELEC 443 Linear Control Systems w |

Introduction to linear systems and feedback control. Topics include introduction to automatic control, overview of Laplace transformation, linear models of dynamic systems, time-domain specifications of first and second order systems, stability analysis using Routh-Hurwitz criterion, steady-state error and disturbance rejection, PID control, stability analysis and linear controller design using root locus method, Nyquist criterion, and Bode plots, and introduction to state-space analysis. These methods are applied and tested using software such as MATLAB/Simulink, and laboratory experiments. (0/0/0/12/36)

PREREQUISITE(S): [ELEC 323](#) or [MTHE 335](#) (MATH 335)

Qualifications:

Minimum of a M.A.Sc. in Engineering or a related field, or a BSc in Engineering with extensive practical experience in engineering communications. Previous teaching experience at the University level will be preferred. Candidates should have excellent communication and presentation skills.

Course Syllabus can be found at:

<http://my.ece.queensu.ca/Current-Students/Undergraduate/Undergraduate-Courses/LandingPages/ELEC-443/ELEC-443-Course-Summary.html>

The above advertised course will be taught on campus. Winter term classes begin January 08, 2017.

Queen's University is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, aboriginal people, persons with disabilities, and persons of any sexual orientation or gender identity. All qualified candidates are encouraged to apply; however, Canadians and permanent residents of Canada will be given priority. Academic staff at Queen's University is governed by a collective agreement between QUFA, [QUFA](#) and Queen's University.

The University will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant's accessibility needs. If you require accommodation during the interview process, please contact Mary Gillespie, mary.gillespie@queensu.ca.

Applications should include a complete and current curriculum vitae, a statement of teaching experience, the names and contact details of two referees who may be contacted, and any relevant other materials the candidate wishes to submit for consideration. Applications can be submitted to the ECE Appointments

Committee at the address below, or by email to Mary Gillespie at mary.gillespie@queensu.ca . Applications should be received no later than October 02, 2017.

Electrical and Computer Engineering Appointments Committee
c/o Mary Gillespie, Departmental Assistant
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