Department of Electronics, Contract Instructor Positions
Winter 2021 (Jan-Apr 2021)

The Department is seeking qualified contract instructors with strong communication and teaching skills established through successful teaching of engineering courses at the university level. Candidates should have current expertise in the subject area of the course, which might be attained through industrial experience or research in academia or government labs. Candidates must have a degree in a relevant field of engineering. A P.Eng. license in Canada is required for the instruction of undergraduate courses.

Applications will be accepted until Aug 1, 2020. Applications with a covering letter and curriculum vitae including educational background, employment history, and related work experience, should be sent via email to chair@doe.carleton.ca.

The University may require that all or part of these courses be delivered remotely, including online.

Carleton University is committed to fostering diversity within its community as a source of excellence, cultural enrichment and social strength. We welcome those who would contribute to the further diversification of our University including but not limited to women, persons with disabilities, visible minorities, Aboriginal peoples, and persons of any sexual orientation or gender identity.

Contract instructor hiring is governed by the CUPE 4600 Unit 2 collective agreement (https://carleton.ca/hr/labour-relations/academic-staff-agreements/).

**ELEC 3105 [0.5 credit]**
**Basic EM and Power Engineering**
Includes: Experiential Learning Activity
Prerequisite(s): MATH 1005, MATH 2004, and (PHYS 1004 or PHYS 1002), and second-year status in Engineering.
Lectures three hours a week, laboratory and problem analysis three hours alternate weeks.

**ELEC 4509 [0.5 credit]**
**Communication Links**
Fundamentals; decibel, intermodulation, 1dB compression, dynamic range, SNR, noise figure, noise temperature, antenna gain, EIRP, G/T. Line-of-sight links; receiver, diversity, fade margin. Satellite links; link calculations, multiple accessing, earth stations. Fiber links, fiber types, sources, detectors, systems.
Includes: Experiential Learning Activity
Prerequisite(s): fourth-year status in Engineering or permission of the Department.
Lectures three hours a week, problem analysis three hours alternate weeks.
SREE 4002 [0.5 credit]
The Energy Economy, Reliability and Risk
Interrelationship between energy and economic policy and regulations. Reliability of energy supply systems. Risk analysis and its application to the generation, distribution and environmental impacts of energy. Risks analysis and management associated with natural and human and regulatory influences. Environmental and public health risk analysis.

Prerequisite(s): fourth-year status in Engineering.
Lectures three hours per week.