



**Sessional Lecturer posting for CUPE 4163 (Component 3)
Department of Electrical and Computer Engineering
Faculty of Engineering and Computer Science**

ECE 471 / ECE 536 – Computer Vision

Term of Appointment from: 1 January 2022 to 30 April 2022

The Department of Electrical and Computer Engineering is seeking a qualified individual to teach ECE 471 / ECE 536 Computer Vision for the Spring 2022 (January to April) academic term. The calendar description of the course can be found below:

ECE 471 Computer Vision **Units: 1.5** **Hours: lecture-lab-tutorial: 3-1.5-0**
Formerly: CENG 421

Elements of drive systems, characterization of mechanical loads, requirements of electrical drive systems, dynamic equations and modelling of electrical machines, dc drives with various dc power sources, induction motor drives, ac controller, slip-energy recovery, constant air-gap flux, synchronous motor drives, permanent magnet motors, reluctance motors.

Note:

Credit will be granted for only one of ECE 471, CENG 421

Prerequisites:

Complete 1 of:

ECE310 - Digital Signal Processing I (1.5)

ELEC310 - Digital Signal Processing I (1.5)

ECE 536 Computer Vision **Units: 1.5**
Formerly: ELEC 536

Overview of the main concepts and methods in computer vision; geometry and physics of imaging, as related to image formation and image acquisition; low-level methods of image analysis, such as filtering, edge detection, feature detection, and segmentation; methods for extracting and representing three-dimensional scene information; motion analysis and algorithms for video understanding. Students are required to complete a project.

Note:

Credit will be granted for only one of ECE 536, ECE 471, CENG 421, ELEC 536

REQUIRED QUALIFICATIONS AND EXPERIENCE

- The successful individual will have a Ph.D. degree, or be enrolled in a Ph.D. degree and must have demonstrated knowledge or experience with the subject matter.
- Prior teaching experience at a university level is an asset.
- Salary is commensurate with the qualifications and follows the Sessional Lecturer Salary Grid included in the agreement between the University of Victoria and CUPE Local 4163 (Component 3).
- **IF YOU ARE A GRADUATE STUDENT APPLYING FOR THIS POSITION, YOUR APPLICATION MUST INCLUDE A LETTER FROM YOUR SUPERVISOR(S) INDICATING HIS/HER/THEIR AGREEMENT WITH YOUR ACCEPTING THIS POSITION SHOULD IT BE OFFERED TO YOU.**

The availability of this position is subject to funding and enrollment criteria. The University of Victoria reserves the right to fill additional teaching assignments from the pool of applicants for this posting.

The University of Victoria is an equity employer and encourages applications from women, persons with disabilities, visible minorities, and aboriginal persons.

TO APPLY: Please submit an expression of interest together with a recent CV via email to eceasst@uvic.ca
Attention: Chair, Department of Electrical and Computer Engineering by: **4 October 2021.**

The anticipated date by which employment decisions will be made is 12 October 2021.