

# ECSE 517. NEURAL PROSTHETIC SYSTEMS.

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Credits: 3

Offered by: Electrical & Computer Engr (Faculty of Engineering)

This course is not offered this catalogue year.

## Description

Selected topics in bioengineering focusing on the principles of neural prosthetics systems (brain machine interfaces). Paralysis as a communication problem. Motor control theory receptive fields. Electrical properties of the central nervous system, modern measurement technologies, encoding and mutual information, statistical data analysis, decoding and thought prediction.

- Prerequisites: (ECSE 303 or ECSE 306 or ECSE 206 or ECSE 316) and (ECSE 305 or ECSE 205) or permission of instructor
- Restriction: Accessible only to Honours Electrical Engineering students and Graduate students in Engineering

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