



Course

# Continuous - Time Control System Design

ELEC4631 | 6 Units of Credit

## Overview

Overview of systems and control engineering with emphasis on modern and post-modern developments. Mathematical tools: matrices, quadratic forms, and eigenvalue decompositions. Modeling of linear time-invariant systems by using state space equations. Controllability and observability of linear time-invariant systems. Linear quadratic regulator. Servo-regulator control. Lyapunov stability. Observers. State and output feedback control design. Optimisation based techniques.

**Faculty**

Faculty of Engineering

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**School**

School of Electrical Engineering & Telecommunications

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**Study Level**

Postgraduate

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**Offering Terms**

Term 2

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**Campus**

Kensington

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**Delivery Mode**

Fully on-site

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**Indicative contact hours**

4

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**Timetable**

[Visit timetable website for details](#)

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## **Equivalent Courses**

ELEC4412 6 UOC

Control of Continuous-time Systems

## **Course Outline**

To access course outline, please visit:

[ELEC4631 Course Outline](#)

## Fees

Commonwealth Supported Students \$1191

Domestic Students \$4470

International Students \$5910

### **DISCLAIMER**

Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the [fee website](#).

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.

## **Pre-2019 Handbook Editions**

Access past handbook editions (2018 and prior)

[Pre-2019 Handbook Editions](#)

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Authorised by Deputy Vice-Chancellor (Academic)

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