



Course

# Industrial and Commercial Power Systems

ELEC9713 | 6 Units of Credit

## Overview

The aim of the course is to provide practical knowledge on the design and operation of electrical distribution systems in large commercial buildings or industrial sites. Topics covered include: regulatory aspects; switchboards, cabling systems; transformers and switchgear; earthing systems; electrical safety issues including personnel protection and fire protection; protection of electrical systems (including both overcurrent and surge protection) and condition monitoring; lightning protection; electrical lighting systems; communication systems in buildings; emergency systems; energy efficiency and energy management; power quality and effects of voltage and current harmonics; power frequency magnetic fields and their impact in building and industrial sites.

**Faculty**

Faculty of Engineering

---

**School**

School of Electrical Engineering & Telecommunications

---

**Study Level**

Postgraduate

---

**Offering Terms**

Term 1

---

**Campus**

Kensington

---

**Indicative contact hours**

3

---

**Timetable**

[Visit timetable website for details](#)

---

## **Exclusion Courses**

ELEC9226 | 6 UOC

Electrical Services in Building

## **Course Outline**

To access course outline, please visit:

[ELEC9713 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](#)

© UNSW Sydney (CRICOS Provider No.: 00098G), 2019. The information contained in this Handbook is indicative only. While every effort is made to keep this information up-to-date, the University reserves the right to discontinue or vary arrangements, programs and courses at any time without notice and at its discretion. While the University will try to avoid or minimise any inconvenience, changes may also be made to programs, courses and staff after enrolment. The University may also set limits on the number of students in a course.

Authorised by Deputy Vice-Chancellor (Academic)

CRICOS Provider Code 00098G

ABN: 57 195 873 179