



Course

Power System Equipment

ELEC4611

6 Units of Credit

Overview

Power transformers, instrument transformers, rotating machines, cables and overhead lines, circuit interrupters (fuses, surge arresters, circuit breakers). Insulating materials used in power equipment, dielectric properties. Electric stress calculation, field grading. Thermal rating of major equipment. Electrodynamics forces in power equipment. Overcurrent, overvoltage, harmonics: causes and effects on equipment operation. High-voltage measurement and testing. Condition monitoring and insulation assessment. Electrical safety: earthing systems for equipment and personnel protection. Utilisation of electrical energy (e.g. lighting and industrial heating).

Faculty

Faculty of Engineering

School

School of Electrical Engineering & Telecommunications

Study Level

Undergraduate

Offering Terms

Term 1

Campus

Kensington

Delivery Mode

Fully on-site

Indicative contact hours

5

Timetable

[Visit timetable website for details](#)

Conditions for Enrolment

Prereq: ELEC3105

Course Outline

To access course outline, please visit:

[ELEC4611 Course Outline](#)

Fees

Commonwealth Supported Students \$1191

Domestic Students \$5970

International Students \$5970

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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