In Progress
Please note that this Unit Profile is still in progress. The content below is subject to change.

ENEE20001 *Advanced Power System Analysis and Control*
Term 2 - 2027

Profile information current as at 09/11/2026 10:24 pm

All details in this unit profile for ENEE20001 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student).The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

In this unit, you will learn to work both individually and in teams in the planning, analysis, and design of power systems and their associated control systems using state-of-the-art methods. You will design power systems to incorporate the growing penetration of renewable energy sources. In order to do this, you will develop advanced skills to effectively design, analyse, and augment power systems to maximise reliability, security, and sustainability. Upon successful completion of this unit, you will be able to analyse systems incorporating renewable energy sources both dynamically and in steady-state using industry-standard software such as Power System Simulator for Engineering (PSSE). You will be able to tune control systems to satisfy Australian network standards and you will become competent to meet the challenges and opportunities of 21st-century power systems as they continue to evolve. You will apply skills in ENEE20001 to work towards the United Nations sustainable development goal. Online students are required to attend a residential school.

Details

Career Level: *Postgraduate*
Unit Level: *Level 9*
Credit Points: *12*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.25*

Pre-requisites or Co-requisites

ENEE14005 Capstone Power and Control Design is an Anti-Requisite for this unit.
Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the Assessment Policy and Procedure (Higher Education Coursework).

Offerings For Term 2 - 2027

- Melbourne
- Online
- Rockhampton

Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website

This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.

Class and Assessment Overview

Information for Class and Assessment Overview has not been released yet.
This information will be available on Monday 17 May 2027

CQUniversity Policies

All University policies are available on the CQUniversity Policy site.
You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Academic Progression Policy and Procedure
- Student Refund and Credit Balance Policy and Procedure
- Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the CQUniversity Policy site.

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from SUTE

Feedback
Students are happy with the teaching style and support given by the staff.

Recommendation
This practice should be continued.

Feedback from SUTE and student consultation

Feedback
Students appreciated the quality of the learning resources provided.

Recommendation
The same learning resources should be used for learning and teaching purposes.

Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.
This information will be available on Monday 17 May 2027

Alignment of Learning Outcomes, Assessment and Graduate Attributes

Information for Alignment of Learning Outcomes, Assessment and Graduate Attributes has not been released yet.
This information will be available on Monday 17 May 2027

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.
This information will be available on Monday 17 May 2027

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.
This unit profile has not yet been finalised.