

In Progress

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



ENEE14007 *Electrical Machines and Drives* *Applications* Term 2 - 2027

Profile information current as at 07/09/2026 09:29 pm

All details in this unit profile for ENEE14007 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 project-based learning unit, you will analyse and design systems and components that convert electrical energy into mechanical energy. You will investigate the construction and operational characteristics of various DC and AC electrical machines, analyse machine protection and control schemes and select and specify machines for particular applications. Furthermore, you will learn about components and materials for electrical machines, and use power electronics to optimise the performance of energy conversion. You are expected to learn and work individually and in teams to complete projects, to develop interpersonal and technical communication skills and to prepare professional documentation, including problem solutions, electrical designs and project reports. Distance education students are required to have access to a computer, to make frequent use of the Internet. In this unit, you must complete compulsory practical activities. Refer to the Engineering Undergraduate Course Moodle site for proposed dates.

Details

Career Level: *Undergraduate*

Unit Level: *Level 4*

Credit Points: *12*

Student Contribution Band: *8*

Fraction of Full-Time Student Load: *0.25*

Pre-requisites or Co-requisites

Pre-requisite: ENEE12015 Electrical Power Engineering

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

- Bundaberg
- Cairns
- Gladstone
- Mackay
- Mixed Mode
- 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 Student evaluation

Feedback

Students valued the group assignment and its connection to industry practice.

Recommendation

Strengthening industry-linked group projects and practical components should be continued and maintained.

Feedback from Student evaluation

Feedback

Some assessment questions, project expectations, and deliverables were unclear or not sufficiently aligned with real-world applications.

Recommendation

Assessment questions, project details, and marking criteria should be reviewed and refined through the ongoing industry review to improve clarity, consistency, deliverable expectations, and practical relevance. The peer review process should also be clarified to better reflect individual contributions.

Feedback from Student evaluation

Feedback

The usefulness of learning materials and feedback was evaluated lower than in previous offerings.

Recommendation

Learning resources should be reorganised and updated, alignment between weekly unit materials and assessment tasks should be strengthened, and feedback clarity should be improved through clearer marking rubrics and brief in-class discussions when assessments are returned, if necessary.

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 21 June 2027

Academic Integrity Statement

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