COIT29226 *Introduction to the Internet of Things*
Term 2 - 2026

Profile information current as at 23/01/2025 12:45 pm

General Information

Overview

The Internet of Things (IoT) is a collection of networked sensors that feed information to applications to make smart decisions. In this unit, you will learn the fundamentals of the IoT as well as the opportunities IoT brings to the connected smart world. This unit will develop your understanding of the hardware and software components of IoT systems, including sensors, gateways, and applications, as well as the network protocols used to communicate between devices. You will learn to store and present IoT data using a dashboard, and learn of the challenges associated with the proliferation of IoT, such as standardisation of communication protocols, reliability, and sustainability, and identify how they impact future IoT deployments. Finally, the unit will cover privacy, security and ethical issues raised by the connected smart world of IoT.

Details

Career Level: *Postgraduate*
Unit Level: *Level 9*
Credit Points: *6*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.125*

Pre-requisites or Co-requisites

Pre-requisite: COIT20245 Introduction to Programming
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 - 2026

- Brisbane
- Melbourne
- Online
- Sydney

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 18 May 2026

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
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and 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 Unit Coordinator's reflection, and feedback from students during class

Feedback
Some students struggled to access and visualise the sensor data from NodeRED installed in the lab computers.

Recommendation
The newly deployed scalable IoT network needs to be further fine-tuned and Node-RED needs to be updated in the lab computers to ensure better accessibility of sensor data.

Unit Learning Outcomes

> **Information for Unit Learning Outcomes has not been released yet.**
> This information will be available on Monday 18 May 2026

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 18 May 2026

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.

This information will be available on Monday 22 June 2026

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.