Engineering Institute of Technology.

Master of Engineering (Civil: Structural)

Study Live and Online | 24 Months

EIT programs are accredited by the exacting standards of the Australian Government's Tertiary Education Quality and Standards Agency (TEQSA).

EIT CRICOS Provider Number: 03567C | EIT Institute of Higher Education: PRV14008 | EIT RTO Provider Number: 51971 | V01

Program Overview

The Master of Engineering Civil Structural will equip you with the necessary skills to address the demands of the structural engineering industry. Students with a background in civil, construction, transport, and systems engineering will especially benefit from this program as it prepares them for further career development in the structural engineering industry. Upon completion of this program, you will gain skills and knowledge in the latest and developing technologies in civil and structural engineering.

The society in which we live today is fundamentally dependent on the structures that structural engineers design and deliver. This Master of Engineering (Civil: Structural), therefore, addresses the specific core competencies and associated underpinning knowledge required of structural engineers.

The curriculum covers a diverse range of topics geared to producing well-rounded graduates equipped with the knowledge that employers require. This master's program aims to provide the student with a multitude of tools and techniques, including those that tackle specific organizational problems and also those needed to design and implement engineering structures.

The Project Thesis is the capstone unit of the program and draws on the topic and reinforces the knowledge and skill base developed in the preceding units. As a significant research component of the program, this project will facilitate research, critical evaluation along with the application of knowledge and skills with creativity and initiative, enabling students to critique and potentially enhance current professional practice in the civil engineering industry. The Project Thesis requires a high level of personal autonomy and accountability.

Specifications

Study Mode	Online
Duration	24 Months
EIT Program Code	MCS

Accreditation

EIT programs are accredited by the exacting standards of the Australian Government's Tertiary Education Quality and Standards Agency (TEQSA).

Entry Requirements

To gain entry into this program, you need to meet EIT's entry requirements. All program entry requirements are available on the program page.

Time Commitment

Our master's degrees take 2 years to complete. The online master's degrees are delivered on a part-time intensive basis over 2 terms, each of 12 weeks. Part-time students are expected to spend approximately 20 hours per week learning the program material, completing assessments and attending tutorials. After enrolment the maximum time allowed to complete all units is 5 years.

Professional Recognition

This master's degree is provisionally accredited by Engineers Australia.

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Program Structure

You must complete 48 credit points comprising twelve core units and one capstone thesis. There are no electives in this program. The program duration is two years, and we deliver units over four terms per year, so you will take two units per term. There will be a short break between years.

TERM	CODE	UNIT TITLE	CREDIT POINTS
		YEAR 1	
Term 1	**MCS501**	Structural Analysis	**3**
Term 1	**MCS502**	Advanced Engineering Materials	**3**
Term 2	**MCS503**	Structural Design Part 1 – Advanced Topics on Reinforced Concrete Design	**3**
Term 2	**MCS504**	Project, Design and Construction Management	**3**
Term 3	**MCS505**	Advanced Structural Engineering Methods Part 1	**3**
Term 3	**MCS506**	Structural Design Part 2 – Advanced Topics on Steel Design	**3**
Term 4	**MCS507**	Structural Dynamics	**3**
Term 4	**DENG601 / MXX501/601**	Engineering Practice and Key Research Methodologies	**3**
		YEAR 2	
Term 1	**MCS602**	Advanced Structural Engineering Methods Part 2	**3**
Term 1	**MCS603**	Earthquake Structural Design	**3**
Term 2	**MCS604**	Structural Refurbishment and Structural Failure	**3**
Term 2	**MCS605**	Design of High Rise Structures and Bridges	**3**
Term 3 & 4	**ME700**	Project Thesis	**12**
		ADDITIONAL MANDATORY UNITS	
N/A	**BXX001***	Hands-on Workshop 1	**0**
N/A	**BXX002***	Hands-on Workshop 2	**0**
N/A	**BXX003***	Hands-on Workshop 3	**0**
N/A	**BXX004***	Hands-on Workshop 4	**0**
N/A	**MXX001**	Professional Practice Hands-on Workshop	**0**
N/A	**MXX510**	Professional Experience	**0**

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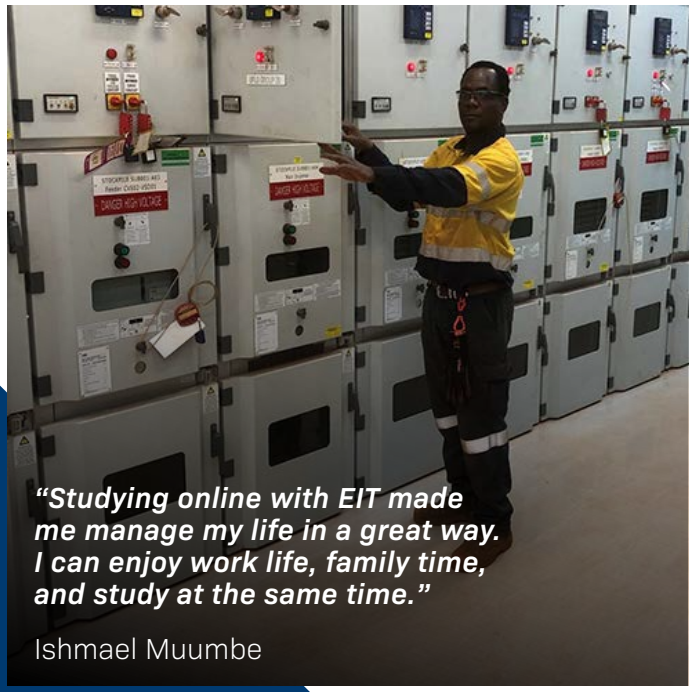
The EIT Online Learning Experience

As an online student, you will benefit from EIT's unique personalized synchronous delivery methodology, that encourages you to advance your knowledge while balancing life and work commitments.

Dedicated Learning Support Officers

EIT students are supported by dedicated Learning Support Officers (LSOs) for the duration of their studies. The LSO team provides individualized support to each student based on their personal course requirements, enabling our students a greater chance of succeeding.



"Studying online with EIT made me manage my life in a great way. I can enjoy work life, family time, and study at the same time."

Ishmael Muumbe

Remote and Virtual Labs

Our lab hosting platform connects you to remote and virtual labs in real time. Once connected, you will have access to a wide range of engineering software and connected hardware, which may be used in practical assessments.

Remote Labs
Electromeet connects you to hands-on remote labs in which you control physical equipment and sensors equivalent to the traditional university engineering lab. The practicals are interactive, controllable, variable, and viewable over webcams in real time.

Virtual Labs
Electromeet hosts simulation software for a multitude of engineering applications, including modeling and analysis, science education, programming, power network design, construct models, design and drafting, industrial process control, and virtual plant field operations.

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Engaging and Interactive

Live and Interactive Tutorials

Tutorials are live, interactive sessions conducted online using advanced web-conferencing software. Students join the lecturer or instructor and other participants from around the world in an online 'virtual classroom.'

You are able to watch a presentation and communicate with the lecturer or instructor and other students in real time with audio, a chatbox, and a variety of other interactive activities.

These tutorials will help to keep you motivated and engaged throughout the duration of the program. They usually last between 60 and 90 minutes, depending on the course and student interaction.

Flexibility

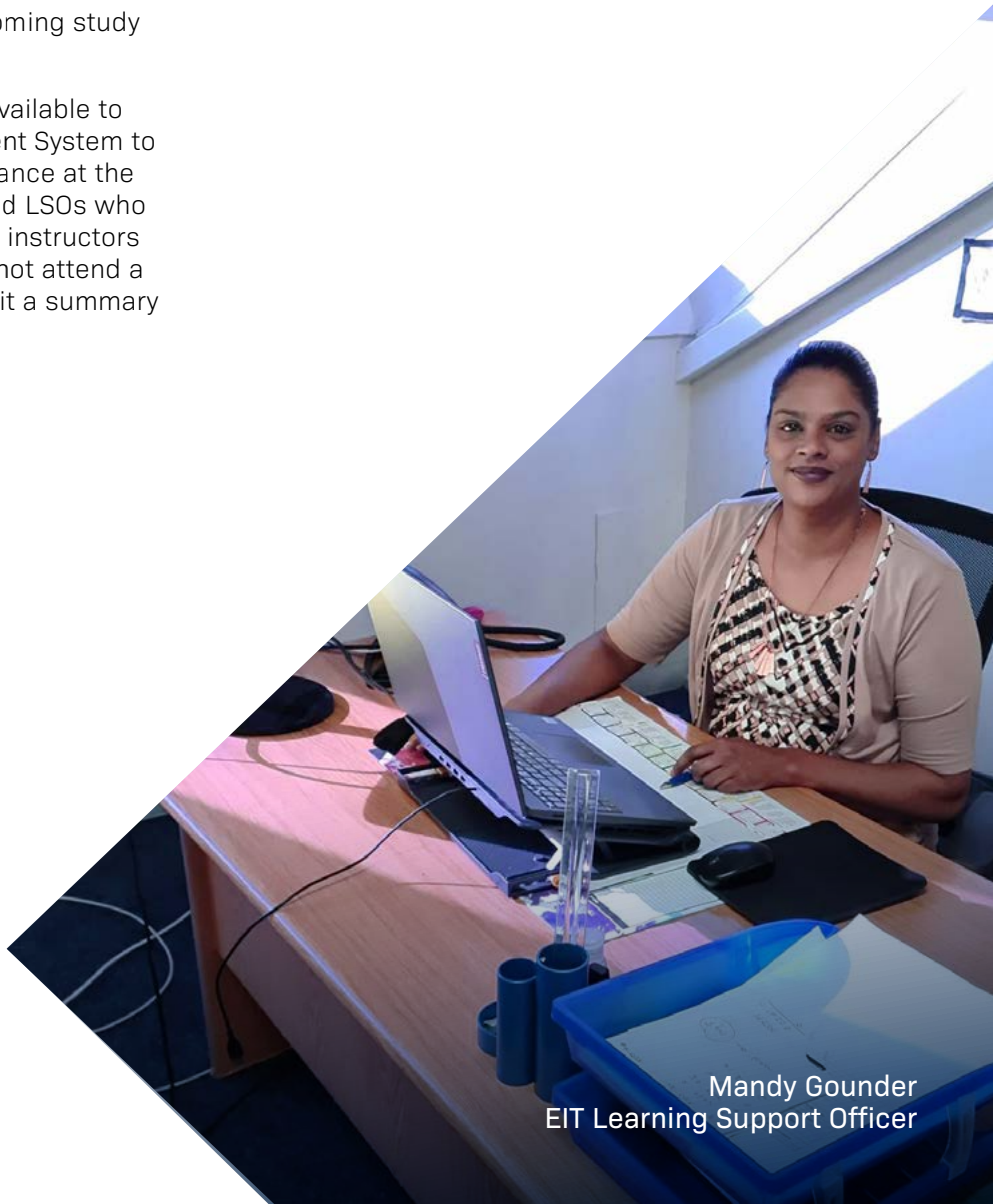
Dates and times of live tutorials are communicated to students when they are enrolled onto their units in the learning management system for the upcoming study period.

All live webinars are recorded and made available to students through our Learning Management System to watch as often as desired. Student attendance at the live webinars is monitored by our dedicated LSOs who also audit the session and the lecturers or instructors to ensure proper delivery. If a student cannot attend a live webinar, they will be required to submit a summary of the recorded webinar to their LSO.

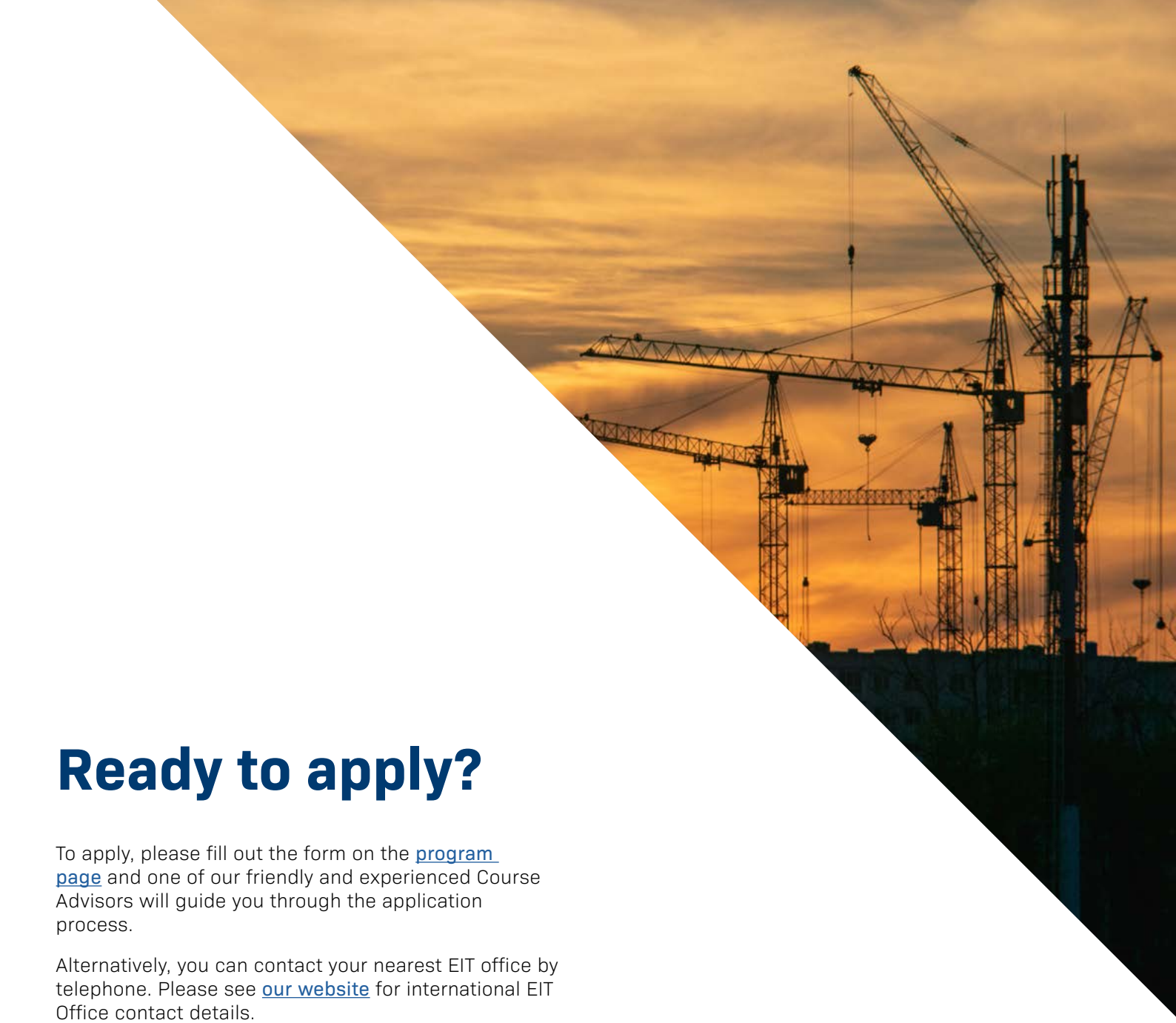
eLibrary

We pride ourselves on providing you with quality learning resources. All teaching materials are delivered via our learning management system, Moodle, including lecture and tutorial slides, and a comprehensive reading list. We also provide access to an extensive online eLibrary and a wide range of engineering-focused library collections, including over 160 technical engineering manuals. Please note - for higher education programs, text books may need to be purchased.

The eLibrary also contains additional information to support students, including referencing guidelines, links and guides to open-access resources, and thesis papers written by our master's graduates.



Mandy Gounder
EIT Learning Support Officer



Ready to apply?

To apply, please fill out the form on the program page and one of our friendly and experienced Course Advisors will guide you through the application process.

Alternatively, you can contact your nearest EIT office by telephone. Please see our website for international EIT Office contact details.

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Scholarships & Bursaries

EIT provides partial scholarships based on academic merit for both current and future students.

Please find eligibility criteria and how to apply by visiting our scholarships page here.

Applying for Credit

Applications for credit are assessed on a case-by-case basis.

The total amount of credit granted will vary for each student based on previous qualifications and/or work experience.

For more information, please refer to our Credit and Recognition of Prior Learning Policy.

Engineering Institute of Technology.

FIND OUT MORE AT WWW.EIT.EDU.AU

The information contained in this publication is accurate and current at the date of publishing (August 2024).
For the most up-to-date information, please visit our website: www.eit.edu.au

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