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# Upskill with EIT's New Industry-Oriented Graduate Certificates

Thursday 15<sup>th</sup> July | Engineering Student Webinar

## PRESENTED BY

**Dr. Milind Siddhpura** | EIT Lecturer  
**Caroline Patterson** | Accreditation and Compliance Manager  
**Monique Harris** | Lead Admissions Officer  
**Arjun Danee** | Learning Support Officer  
**Christopher Fordyce** | Lead Course Advisor - Australia

# Agenda

- 1 Introductions – Presenters
- 2 Brief Overview of EIT
- 3 New Graduate Certificates Overview
- 4 Learning Support & Course Delivery
- 5 Q & A



**Dr. Milind Siddhpura**  
EIT Lecturer | Perth, WA

- Over 18 years of experience as an academic in top Australian and overseas universities.
- PhD in Mechanical Engineering from UWA.
- Received prestigious awards from the Australian government and published in high-ranking international journals and conferences.
- Course Coordinator in Mechanical and Civil Engineering at EIT
- Responsible for developing and maintaining highest quality in the Bachelor's, Master's and Doctorate of Engineering courses.

### **Why I joined EIT?**

- Full focus on 'Engineering'
- Industry relevant: Internships > Jobs
- Global industry experts teaching engineering

## Caroline Patterson | Accreditation and Compliance Manager

Caroline's career in education and training has spanned over 20 years, and she has been involved with multiple successful regulator, professional body, and internal audits. She has extensive experience in policy development in the VET and Higher Education sectors, ensuring compliance across all policies and processes institute-wide.

Caroline is responsible for the oversight of EIT's VET and Higher Education operations and also is a member of EIT's Governance Board.

## Monique Harris | Lead Admissions Officer

Monique is EIT's Lead Admissions Officer; she has been with EIT for over five years, and is based in Perth, Western Australia. She is critical to the management of all student applications submitted for assessment. She is the key contact for students and agents when submissions are under review. Monique is dedicated to ensuring each applicant has every chance of graduating successfully.

## Arjun Danee | Learning Support Officer

Arjun is enthusiastic about helping people, and with his outstanding communication skills, provides our students the highest level of encouragement in anticipation of their success.

Arjun is one of EIT's Learning Support Officers for EIT's higher education programs. He is responsible for ensuring these programs are run effortlessly each semester, and that students are afforded the very best support for their studies.

## Christopher Fordyce | Lead Course Advisor - Australia

Chris is a Lead Course Advisor based at our Perth, Western Australia office and handles course enquiries from international and domestic students. Chris has sound experience in advising on course entry criteria, study pathways for VET and Higher Education. He is involved in assisting potential students from first enquiry to submitting their complete application.



We are dedicated to ensuring that you receive a world-class education and gain skills that you can immediately implement in the workforce.



## Engineering Specialists

EIT is one of the only institutes in the world specializing in Engineering. We deliver professional certificates, diplomas, advanced diplomas, undergraduate and graduate certificates, bachelor's and master's degrees, and a Doctor of Engineering.



## Industry Oriented Programs

Our programs are designed by industry experts, ensuring you graduate with cutting-edge skills that are valued by employers. Our program content remains current with rapidly changing technology and industry developments.



## World-Class Australia Accredited Education

Our vocational programs and higher education degrees are registered and accredited by the Australian Government. We have programs that are also recognized under three international engineering accords.



## Industry Experienced Lecturers

Our lecturers are highly experienced engineers and subject specialists with applied knowledge. The technologies employed by EIT, both online and on-campus, enable us to source our lecturers from a large, global pool of expertise.



## Unique Delivery Model

We deliver our programs via a unique methodology that makes use of live and interactive webinars, an international pool of expert lecturers, dedicated learning support officers, and state-of-the-art technologies such as hands-on workshops, remote laboratories, and simulation software.

# New EIT Graduate Certificates

Gain the skills and knowledge needed to address the growing demands of industry and open doors to new and exciting career opportunities.



Graduate Certificate in CAD and Computational Techniques



Graduate Certificate in Civil Engineering (Structural Analysis and Design)



Graduate Certificate in Civil Engineering: (Structural Performance, Monitoring and Management)



Graduate Certificate in Fluid Power Engineering



Graduate Certificate in Industrial Instrumentation and Process Control



Graduate Certificate in Industrial Instrumentation and Safety Systems



Graduate Certificate in Power System Analysis and Design

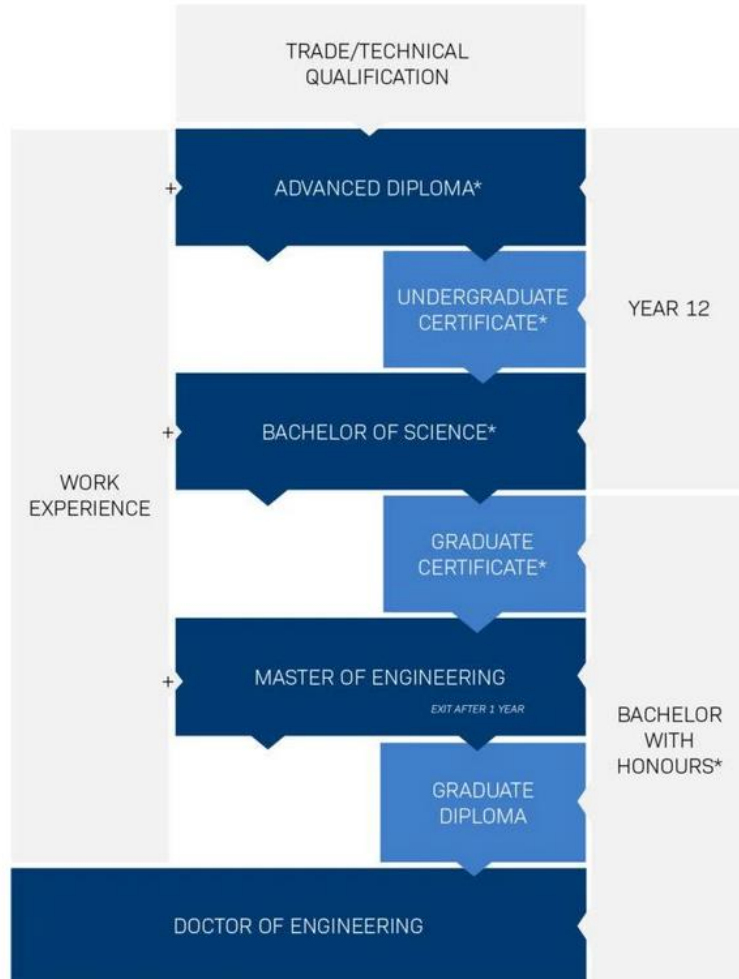


Graduate Certificate in Process and Thermal Engineering



Graduate Certificate in Programmable Logic Controllers and SCADA

# What is a Graduate Certificate?



\* In a congruent field



## Specialized Qualification

They are a postgraduate qualification that can be completed in 6 months full time or up to 1 year part time.



## Enhance Your Skills and Knowledge

Graduate Certificates are a great way to add to your academic portfolio and upskill in your field.



## Applicants are required to:

- Hold a recognized bachelor degree (or above) in engineering or science in a congruent field of practice\*,
- Have completed the equivalent of first-year Bachelor level mathematics, or are able to demonstrate recognized relevant work experience.
- Have an appropriate level of English Language Proficiency at an English pass level in an Australian Senior Certificate of Education, or an IELTS score of 6.0 (with no individual band less than 6.0)\*\* , or equivalent as outlined in the [EIT Admissions Policy](#).





Applicants who hold a bachelor's degree in a non-congruent engineering field are required to demonstrate their prior learning and experience is equivalent to the entry requirements (exact positions and roles that will be considered relevant are to be decided by each specialization and will be considered on a case-by-case basis by the EIT Admissions Committee).

Applicants who do not hold a recognized bachelor's degree are required to demonstrate their prior learning and experience is equivalent to this qualification. A minimum of an Australian Advanced Diploma (or equivalent) in Engineering and 10 years of technical work experience at a technologist level or above in a relevant engineering field is required for an application to be considered (exact positions and roles that will be considered relevant are to be decided by each specialization and will be considered on a case-by-case basis by the EIT Admissions Committee) \*\*\*.

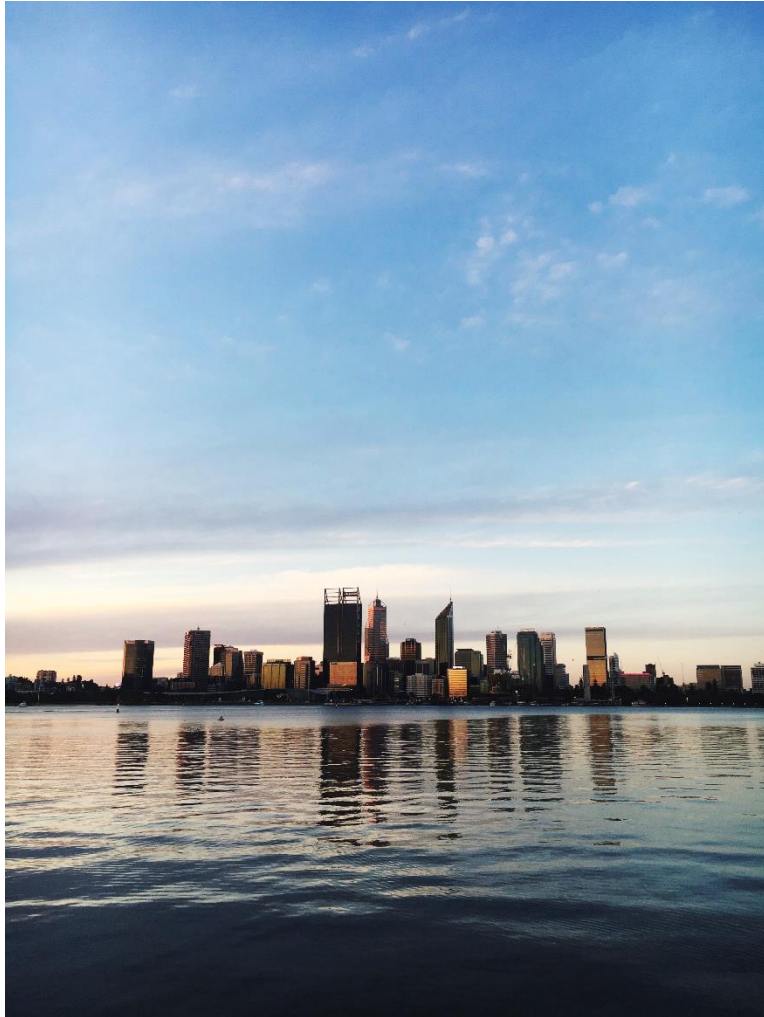
## ***Please note:***

- 1. All applicants must have evidence of engineering exposure in their degree and/or work experience.*
- 2. Students seeking admission via a work experience pathway **may** be required to undertake additional diagnostic mathematics testing.*
- 3. All applications will be assessed on a case-by-case basis.*
- 4. All documents submitted as part of your application must be certified.*

\* Congruent field of practice means one of listed on the relevant course page (fields not are to be considered by the Dean and the Admissions Committee on a case-by-case basis):

\*\*Applicants may have a maximum of one individual band of 5.5 and be granted entry subject to the provision of English language support by EIT

\*\*\* Applicants who enter and complete this qualification without holding a prior Bachelor's Degree and go on to complete an EIT Masters Degree may not be eligible for Engineers Australia recognition. However, students can lodge a personal application with Engineers Australia to be assessed on a case-by-case basis.



If you are a domestic student, you may be eligible for subsidies provided by the Australian government, including through a [Commonwealth Supported Place \(CSP\)](#).

Enrolling in a CSP means the Australian Government pays for part of your course. To be eligible for a CSP, you must be one of the following:

- An Australian citizen, who will live and study in Australia for some of the course; or
- A New Zealand citizen, who will live and study in Australia for the whole course; or
- A permanent visa holder, who will live and study in Australia for the whole course.

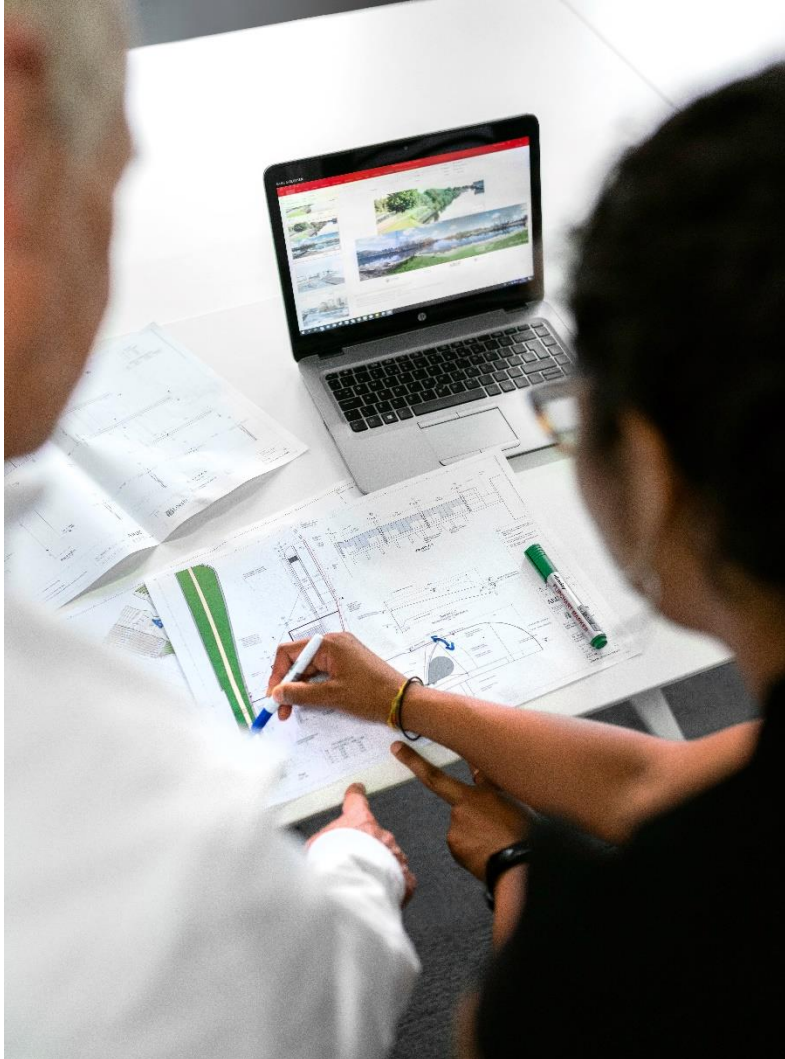


# Commonwealth Support Places for Eligible Students



- The student contribution amount for a CSP in this course is \$500 (\$125 per unit). Eligible students are able to defer their student contribution payment through HECS-HELP. Eligibility requirements for deferring payment through HECS-HELP apply. Further information can be accessed [here](#).
- There are limited Commonwealth Supported Places available. Complete your application as soon as possible to avoid disappointment.
- To assess your eligibility for a CSP you will need to provide a certified copy of one of the following with your application:
  - Passport;
  - Birth certificate; or
  - Visa/VEVO notice.





## EIT Academic Excellence Scholarship

- **Value:** 70% reduction on your tuition fees (applicable to a maximum of 4 units)
- **Intake:** 23 August 2021
- **Application deadline:** 26 July 2021

For further information on eligibility and how to apply, please see:

<https://www.eit.edu.au/how-to-apply/scholarships/eit-academic-excellence-scholarship-undergraduate-graduate-certificates/>

**For specific fees for our Graduate Certificates, please visit our fees page (<https://www.eit.edu.au/how-to-apply/fees/>) and enter your country of residence.**

You will be able to pay for your fees at EIT by one of three methods:

- › Upfront for each teaching period (mandatory for CSP student contribution payments)
- › One payment installment each month for the duration of the unit/s you study in each teaching period (non-CSP only)
- › Using a FEE-HELP (if eligible) or HECS-HELP loan (only applicable to CSP student contribution payments)

## Upfront

Payment can be made upfront by EFT or by credit card (Visa and Mastercard only). Upfront payments must be received by the payment due date.

## Monthly Installments

This payment method attracts a 2% administrative fee. Your first installment payment must be received by the payment due date.

*Please note, terms and conditions apply.*



## Higher Education Programs

- › Successful students spend approximately 10 hours per week, per unit.
- › Weekly tutorials (60 minutes).
- › You must attend 70% of the live tutorials.
- › If you cannot attend a live tutorial, you can provide a summary in place of attendance (in most units).
- › In addition to the tutorial, you are required to watch the pre-recorded lecture.



**Upcoming Intake**  
23<sup>rd</sup> August 2021

**Application Deadline**  
26<sup>th</sup> July 2021

- › Graduate Certificate in CAD and Computational Techniques
- › Graduate Certificate in Civil Engineering Structural Analysis and Design
- › Graduate Certificate in Civil Engineering Structural Performance Monitoring and Management
- › Graduate Certificate in Fluid Power Engineering
- › Graduate Certificate in Industrial Instrumentation and Process Control
- › Graduate Certificate in Industrial Instrumentation and Safety Systems
- › Graduate Certificate in Power System Analysis and Design
- › Graduate Certificate in Process and Thermal Engineering
- › Graduate Certificate in Programmable Logic Controllers and SCADA

# Mechanical Engineering





# Graduate Certificates – Mechanical Engineering

## Graduate Certificate in CAD and Computational Techniques

Unit Code	Subject	Credit Points
MME506	Advanced Fluid Dynamics	3
MME602	Computer-Aided Design and Manufacturing	3
MME603	Finite Element Method	3
MME604	Introduction to Aerodynamics	3

## Graduate Certificate in Fluid Power Engineering

Unit Code	Subject	Credit Points
MME503	Industrial Hydraulics and Pneumatics	3
MME504	Pumps, Compressors, Turbines and Drives	3
MME505	Process Engineering	3
MME506	Advanced Fluid Dynamics	3

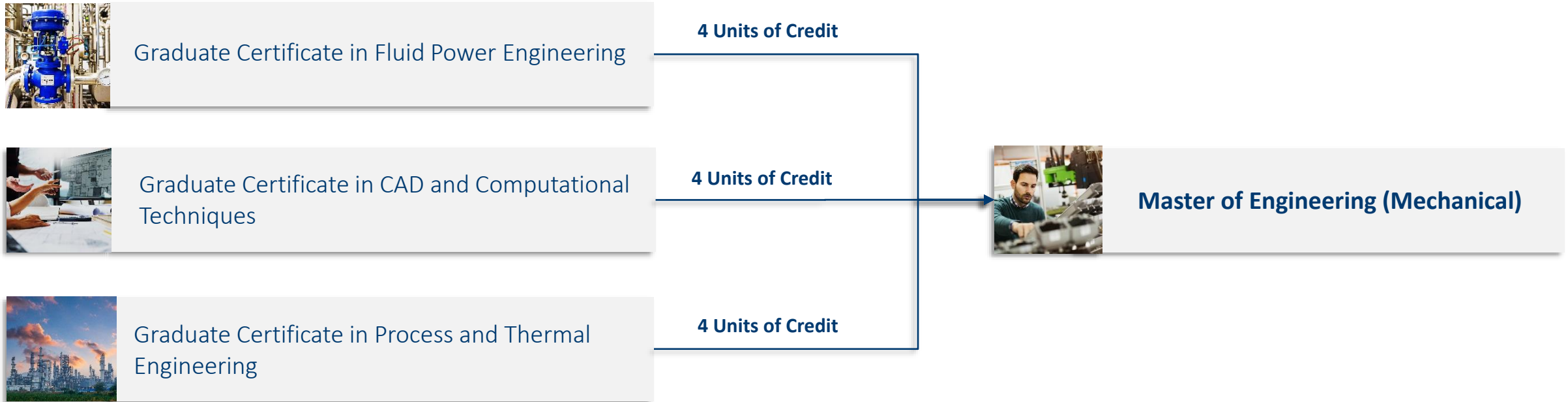
## Graduate Certificate in Process and Thermal Engineering

Unit Code	Subject	Credit Points
MME502	Heat Transfer	3
MME504	Pumps, Compressors, Turbines and Drives	3
MME505	Process Engineering	3
MME508	Industrial Gas Turbines	3

# Credit into EIT's Master of Engineering (Mechanical)

For further study, graduates may consider **EIT's Master of Engineering (Mechanical)**.

Successful Graduates of these Graduate Certificates can gain credit for the relevant units in the Master of Engineering degree if they successfully enrol.



# Civil and Structural Engineering



## Graduate Certificate in Civil Engineering: (Structural Analysis and Design)

Unit Code	Subject	Credit Points
MCS501	Structural Analysis	3
MCS502	Advanced Engineering Materials	3
MCS503	Structural Design Part 1 – Advanced Topics on Reinforced Concrete Design	3
MCS506	Structural Design Part 2 – Advanced Topics on Steel Design	3

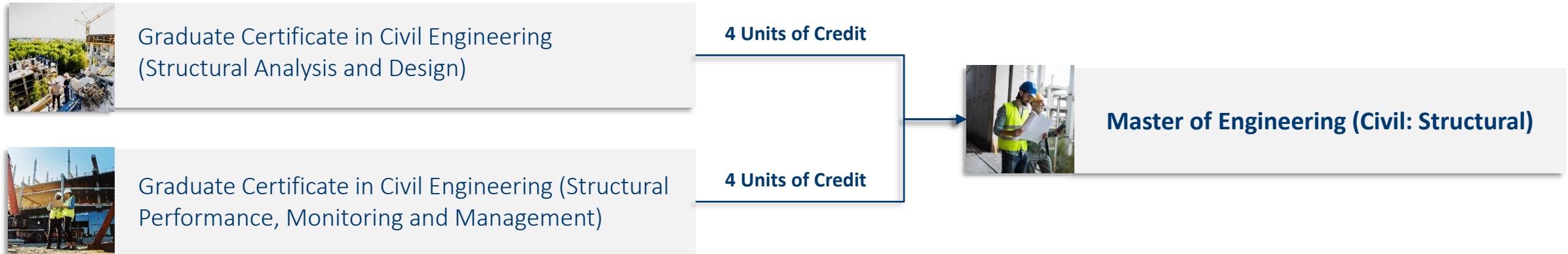
## Graduate Certificate in Civil Engineering: (Structural Performance, Monitoring and Management)

Unit Code	Subject	Credit Points
MCS502	Advanced Engineering Materials	3
MCS504	Project, Design and Construction Management	3
MCS603	Earthquake Structural Design	3
MCS604	Structural Refurbishment and Structural Failure	3



# Credit into EIT's Master of Engineering (Civil: Structural)

For further study, graduates of these Graduate Certificates can gain credit for units in the relevant Master of Engineering degree if they successfully enrol.



# Electrical Engineering



## Graduate Certificate in Power System Analysis and Design

Unit Code	Subject	Credit Points
MEE513	Electric Power System Analysis	3
MEE512	Power System Safety and Protection	3
MEE514	System Stability Analysis	3
MEE607	Power Quality and Mitigation	3

# Credit into EIT's Master of Engineering (Electrical Systems)

For further study, graduates of these Graduate Certificates can gain credit for units in the relevant Master of Engineering degree if they successfully enrol.



Graduate Certificate in Power System Analysis and Design

4 Units of Credit



**Master of Engineering (Electrical Systems)**

# Industrial Automation Engineering





## Graduate Certificate in Programmable Logic Controllers and SCADA

Unit Code	Subject	Credit Points
ME502	Programmable Logic Controllers	3
ME503	Industrial Process Control Systems	3
ME602	SCADA and Distributed Control Systems	3
ME603	Advanced Process Control	3

## Graduate Certificate in Industrial Instrumentation and Process Control

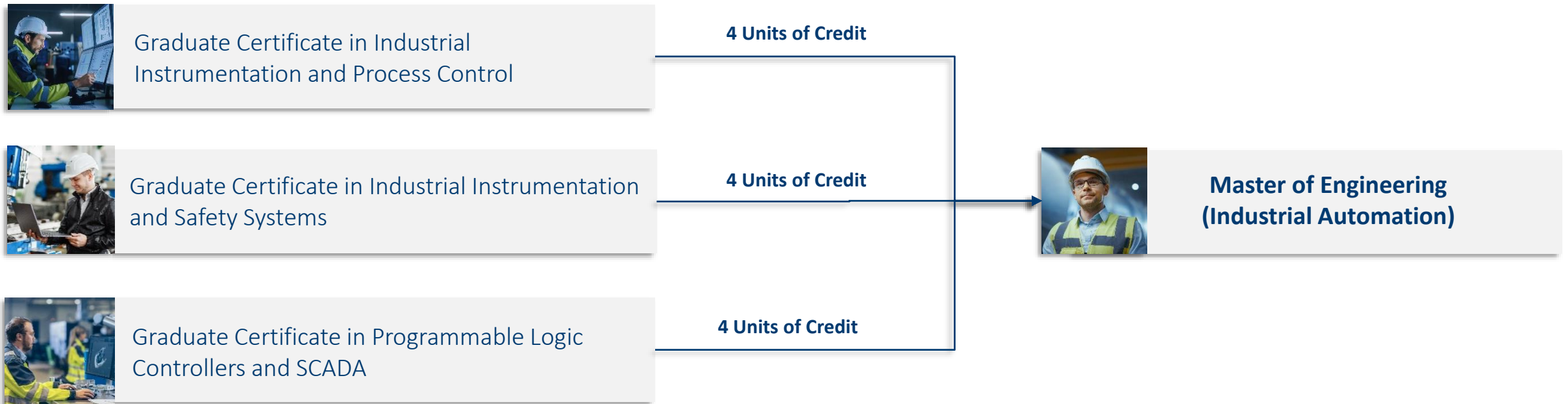
Unit Code	Subject	Credit Points
ME503	Industrial Process Control Systems	3
ME504	Industrial Instrumentation	3
ME505	Process Engineering (Plant Layout)	3
ME603	Advanced Process Control	3

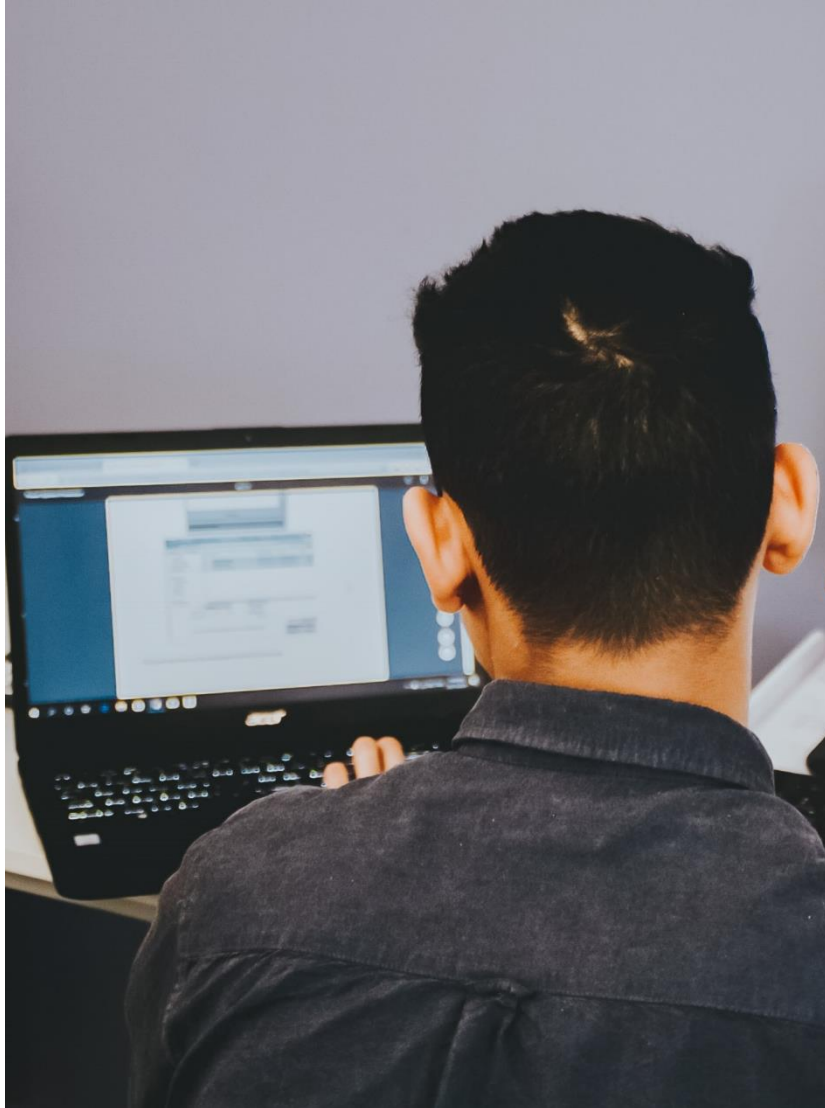
## Graduate Certificate in Industrial Instrumentation and Safety Systems

Unit Code	Subject	Credit Points
ME502	Programmable Logic Controllers	3
ME503	Industrial Process Control Systems	3
ME504	Industrial Instrumentation	3
ME508	Safety Instrumented Systems	3

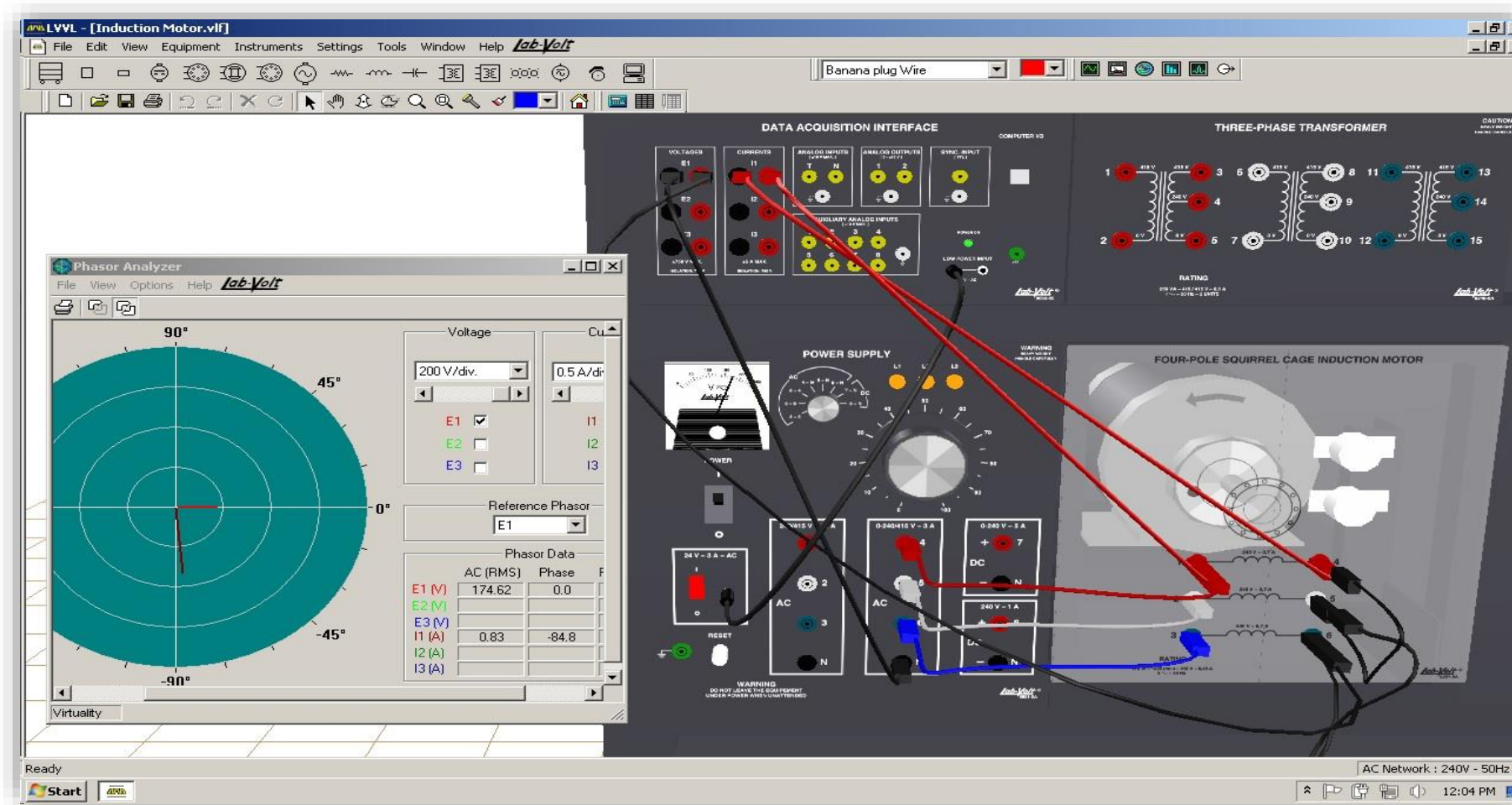
# Credit into EIT's Master of Engineering (Industrial Automation)

For further study, graduates of these Graduate Certificates can gain credit for units in the relevant Master of Engineering degree if they successfully enrol.





- › In the majority of our programs students complete practical exercises using a combination of remote and virtual laboratories (including simulation software).
- › In these remote and virtual laboratories students can control physical equipment and sensors equivalent to the traditional university engineering lab.
- › This means that even though you are studying online, you are not missing out on your hands-on, practical experience. For the on-campus students, workshops and work integrated learning via an internship is incorporated into the student journey.
- › Through these hands-on exercises using simulation software, remote laboratories, practical based assignments and interactive discussion groups, students are able to grasp new knowledge and apply it successfully to the real world.
- › **Each hosted engineering software and hardware can be controlled in real time; it's as simple as logging in and selecting an available lab and timeslot!**

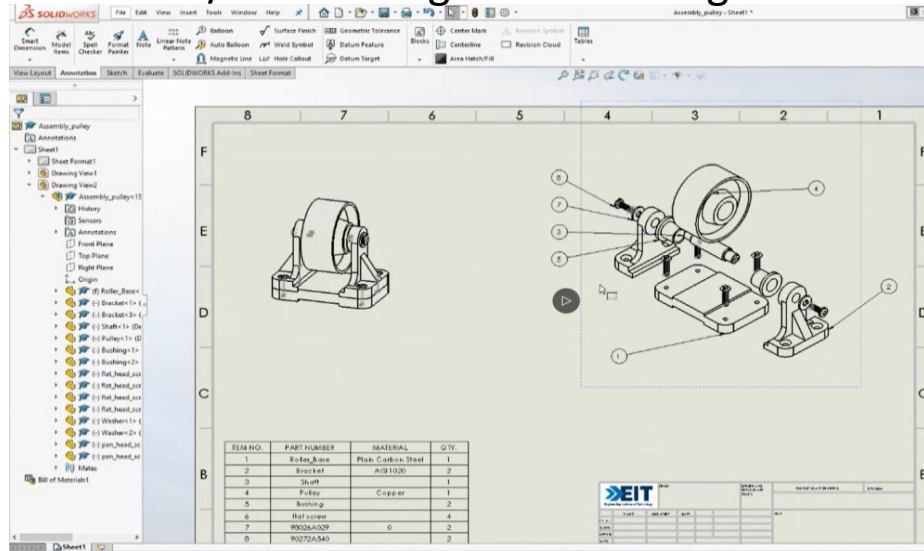


**Fig:** Remote Lab Practical exercise on four pole squirrel cage induction motor. Measuring phase voltage and neutral current.

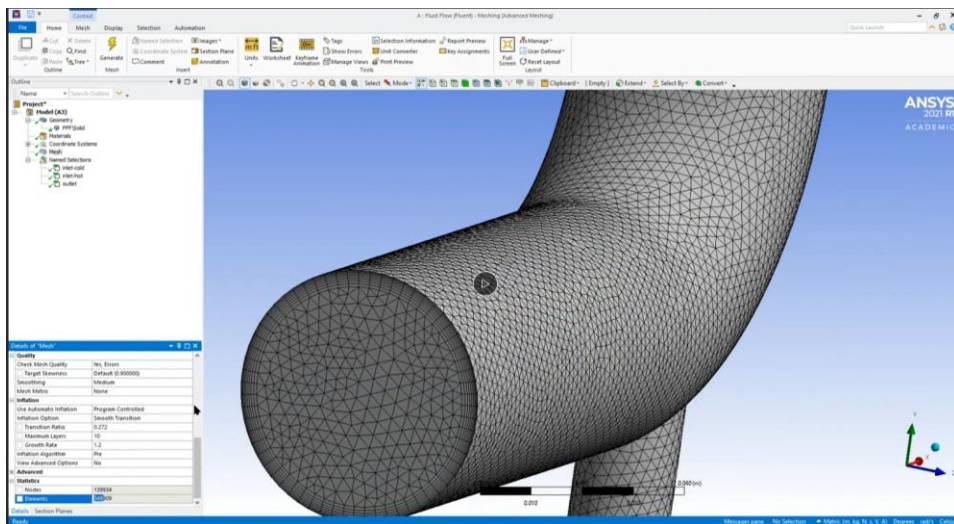


# Content Delivery Examples (GCCAD)

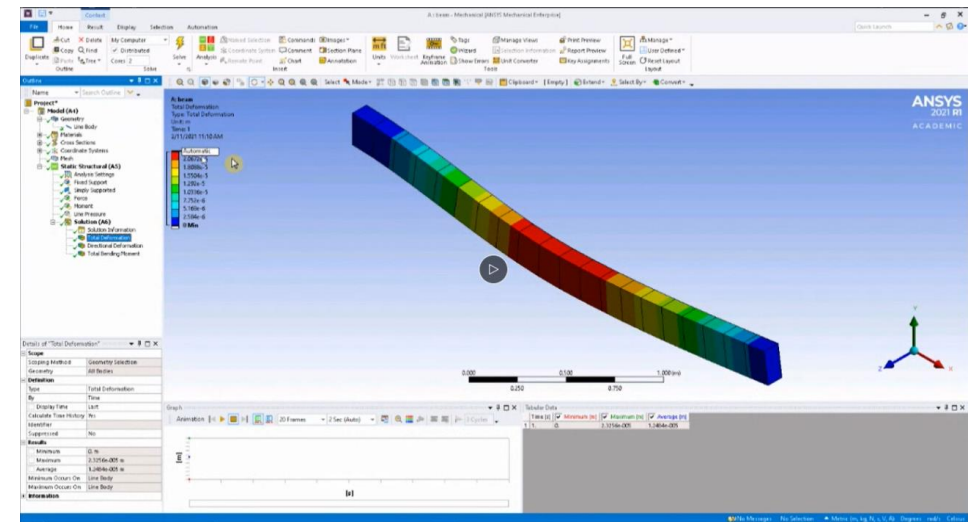
## CAD/CAM: Design and Drafting



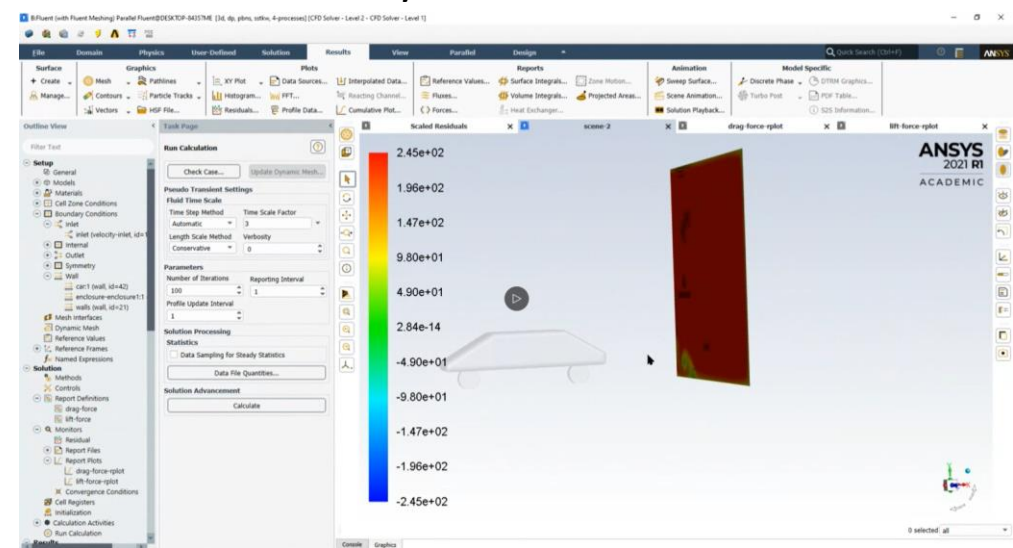
## Advanced Fluid Mechanics: CFD



## FEM:



## Aerodynamics: Vehicles

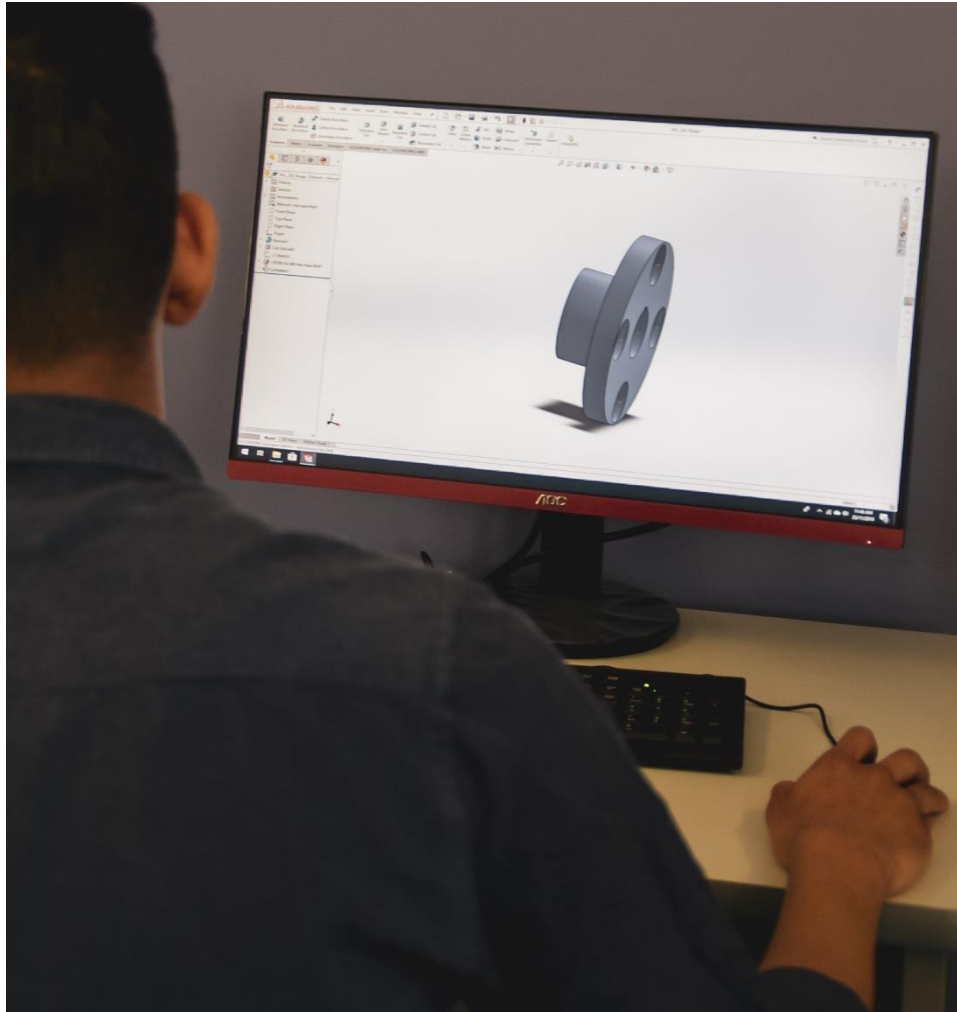




*“As a LSO I love supporting our students on their learning journey and ensuring their experience with EIT is a positive and rewarding one”*

*Ms. Emily Levy  
Higher Education LSO*

- › Learning Support Officers (LSOs) are in addition to the academic support (instructors/lecturers).
- › LSOs guide the students from the onboarding process through to graduation.
- › LSOs are the support, encouragement and go-to person for any question relating to a student’s studies.
- › One LSO is dedicated to each unit in Higher Education studies at EIT.
- › EIT has LSOs based in: *South Africa, Switzerland, Zimbabwe, New Zealand and Australia.*



## Our Online Learning Methodology

Our unique online delivery methodology makes use of:

- Live and interactive tutorials
- An international pool of expert lecturers
- Dedicated learning support officers, and
- State-of-the-art technologies such as hands-on workshops, remote and virtual laboratories, and simulation software

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

- › Visit the relevant Graduate Certificate you are interested in on our website: <https://www.eit.edu.au/eit-introduces-9-new-graduate-certificate-courses/>
- › Click “Apply Now” and fill out the short online form.
- › You will receive an email shortly afterwards containing an “Apply Now” button to start your application.
- › All applicants will be required to provide:
  - Certified copies of qualifications and evidence of results.
  - Your latest CV/Resume; this must include a detailed summary of your previous education and work history.
  - Photographic identification: passport, drivers license or similar
  - Citizenship/PR evidence if applying for CSP

If you have any course/application queries please contact Chris: [Chris.Fordyce@eit.edu.au](mailto:Chris.Fordyce@eit.edu.au)



## **Studying for the Jobs of the Future: Mechanical Engineering**

Date: 21 July 2021

Time: 3:00pm – 4:00pm AWST

## **Transitioning to Digital Manufacturing with Industry 4.0 Technologies**

Date: 29 July 2021

Time: 3:00pm – 4:00pm AWST

View and register for our upcoming events on our events page:

<https://www.eit.edu.au/news-events/events/>

# Q&A



# Thank you for attending.

## Contact Us



### Website

[www.eit.edu.au](http://www.eit.edu.au)



### Head Office

1031 Wellington Street West Perth  
Perth, WA 6005



### Phone

Inside Australia: 1300 138 522  
Outside Australia: +61 8 9321 1702



### Email

[webinars@eit.edu.au](mailto:webinars@eit.edu.au)

## Course/application queries



### Email

[Chris.fordyce@eit.edu.au](mailto:Chris.fordyce@eit.edu.au)



### Phone

Inside Australia: 1300 138 522  
Outside Australia: +61 8 9321 1702

