

Thursday 19th November



Future Proof Your Employability with an Online Bachelor's or Master's Degree

Online Engineering Student Webinar

Presented by

Mr Jason Gabriel | Higher Education Manager

Dr. Milind Siddhpura | Course Coordinator and Mechanical & Civil Engineering

[View Recording Here](#)

Agenda

1 Welcome

2 Overview of EIT

3 Our online approach
Our global industry expert Lecturers
Support for our Students
Remote and virtual laboratories

4 Q & A



Dr. Milind Siddhpura

Milind is the Course Coordinator of Mechanical and Civil Engineering disciplines at EIT. He is responsible for developing and maintaining highest quality in the engineering courses.

Milind has over 16 years of internationally-significant experience in engineering while working as an academic in top Australian and overseas universities as well as in the VET sector. He has received prestigious awards from the Australian government for an industry research project during his Ph.D. and he has published in high-ranking international journals and conferences.



Mr Jason Gabriel

Jason oversees EIT's Learning Support Officers who ensure the Bachelor of Science, Master of Engineering, Undergraduate and Graduate Certificate course units are run effortlessly each semester, and that students are afforded the very best support for their studies.

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



EIT is one of the only institutes in the world specializing in engineering.



Emerged in 2008 from sister company IDC Technologies. Since 1991, IDC's portfolio of 300 courses has been attended by over 500,000 engineers, technicians and technologists.



In 2019, EIT delivered courses to over 2,000 students globally and has alumni from 146 countries.



80 programs from professional certificates through to Australian accredited diplomas, degrees and a Doctor of Engineering.



Network of 300+ industry-based expert lecturers with applied knowledge.

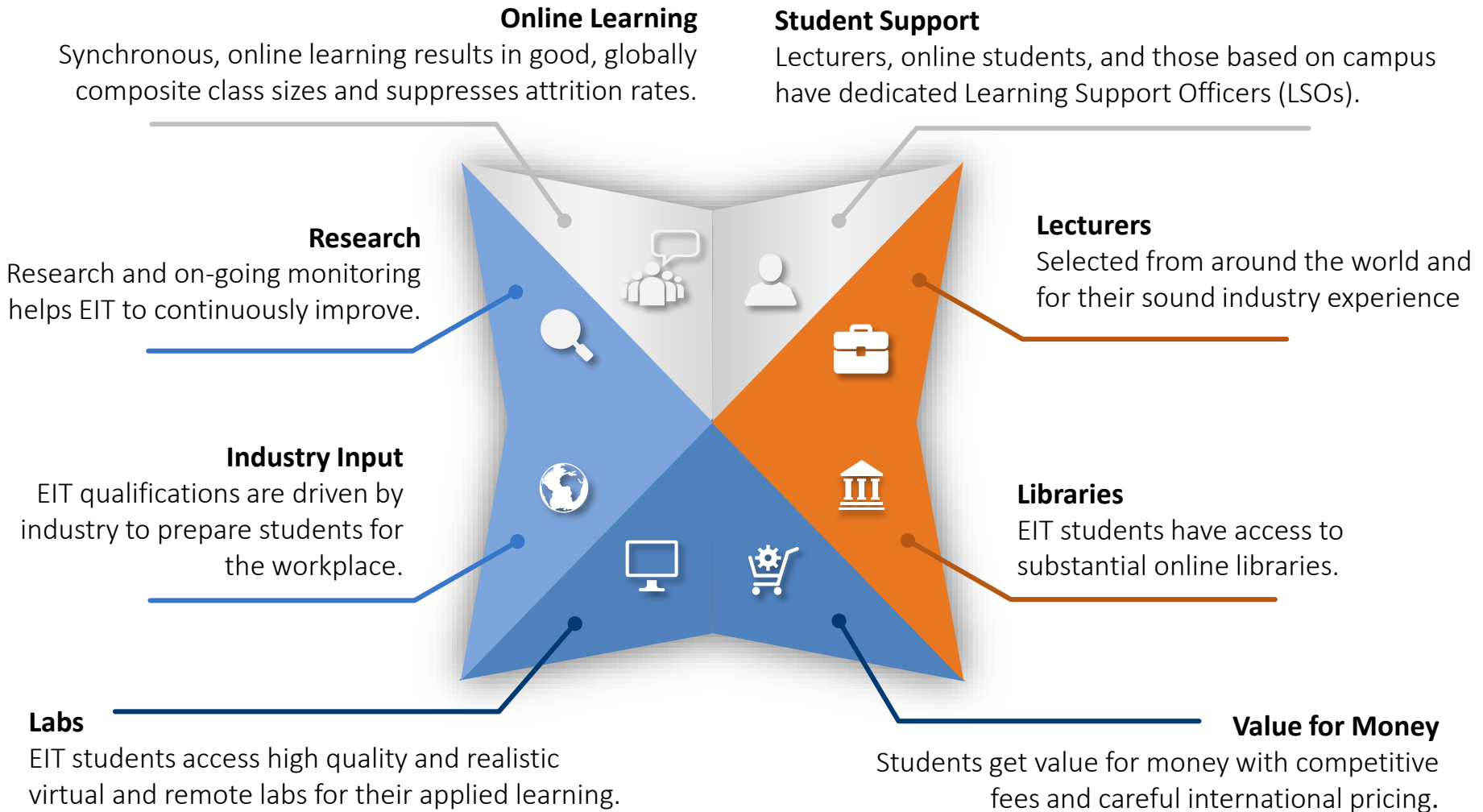


Unique methodology that makes use and state-of-the-art technologies including remote and virtual labs.



Programs designed by industry experts to provide cutting edge skills valued by employers globally.

Our Online Approach





Higher Education Programs

- › Successful students spend approximately 10 hours per week, per unit.
- › Weekly tutorials (90 minutes for bachelors & 60 minutes for masters).
- › 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.



Bachelors

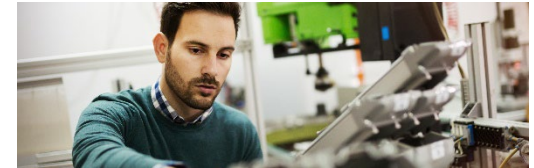
Intakes: February & June
Duration: 3 years full time

Bachelor of Science
(Civil and Structural Engineering)

Bachelor of Science
(Electrical Engineering)

Bachelor of Science
(Industrial Automation Engineering)

Bachelor of Science
(Mechanical Engineering)



Masters

Intakes: February & June
Duration: 2 years full time

Master of Engineering
(Civil: Structural)

Master of Engineering
(Electrical Systems)

Master of Engineering
(Industrial Automation)

Master of Engineering
(Mechanical)

**Undergraduate and graduate certificate qualifications are also available.*



Duration

36 Months



Study Mode

Online



Next Intake

1 Feb 2021



Relevant Fields

All

Graduates will make original and significant contributions to the development, application and evaluation of professional knowledge by engaging with practical problems of demonstrated importance to their employment context and the wider body of engineering and technical knowledge.

The doctorate will run over three years (with four 12-week terms per year). Academic supervision, coupled with guidance from an industry advisor, will be an integral part of this program.

Our Online Approach: Live and Interactive

- Students join the lecturer and other students from around the world in an online virtual classroom.
- EIT incorporates live and interactive sessions within each program (students can utilise the chat box and microphone).
- Class sizes are small to allow students to build rapport with lecturers and students.

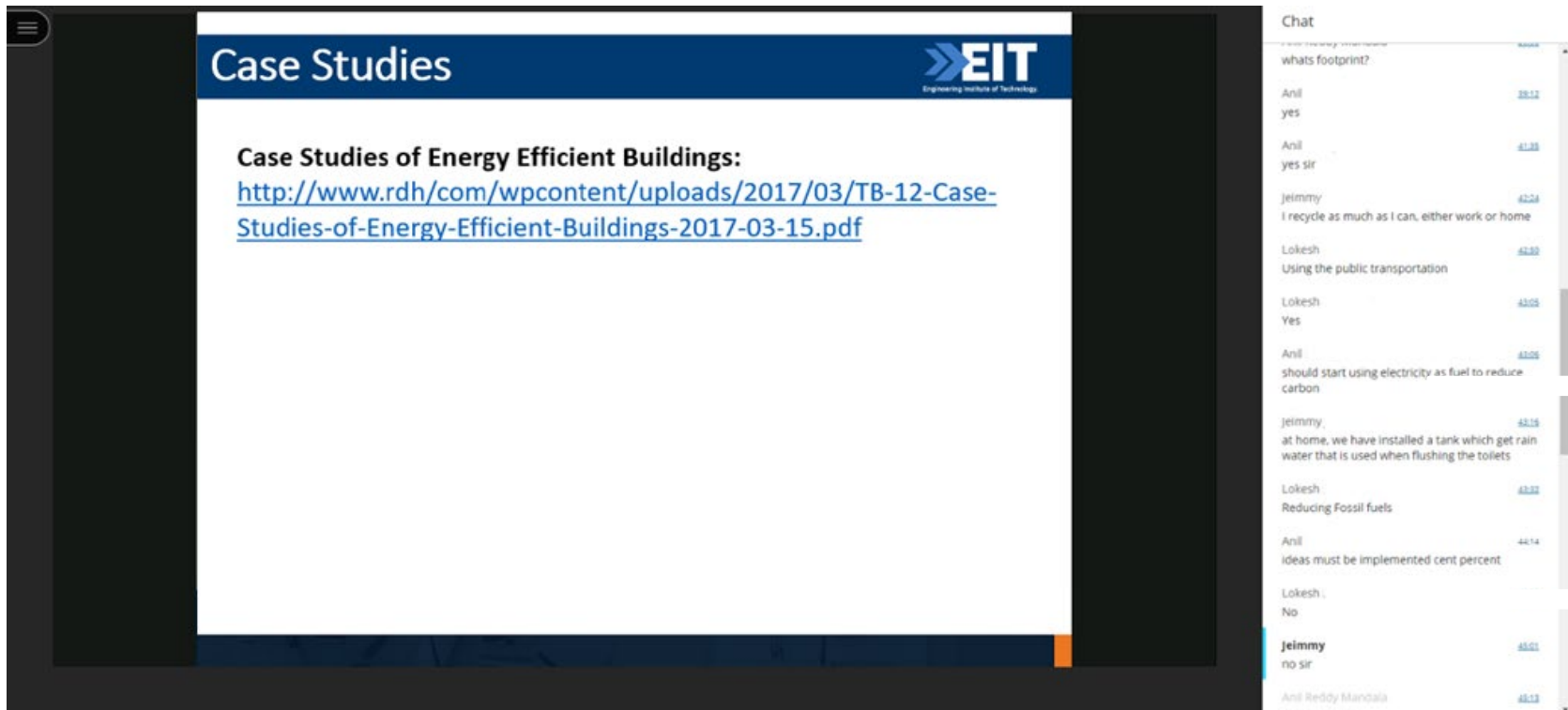
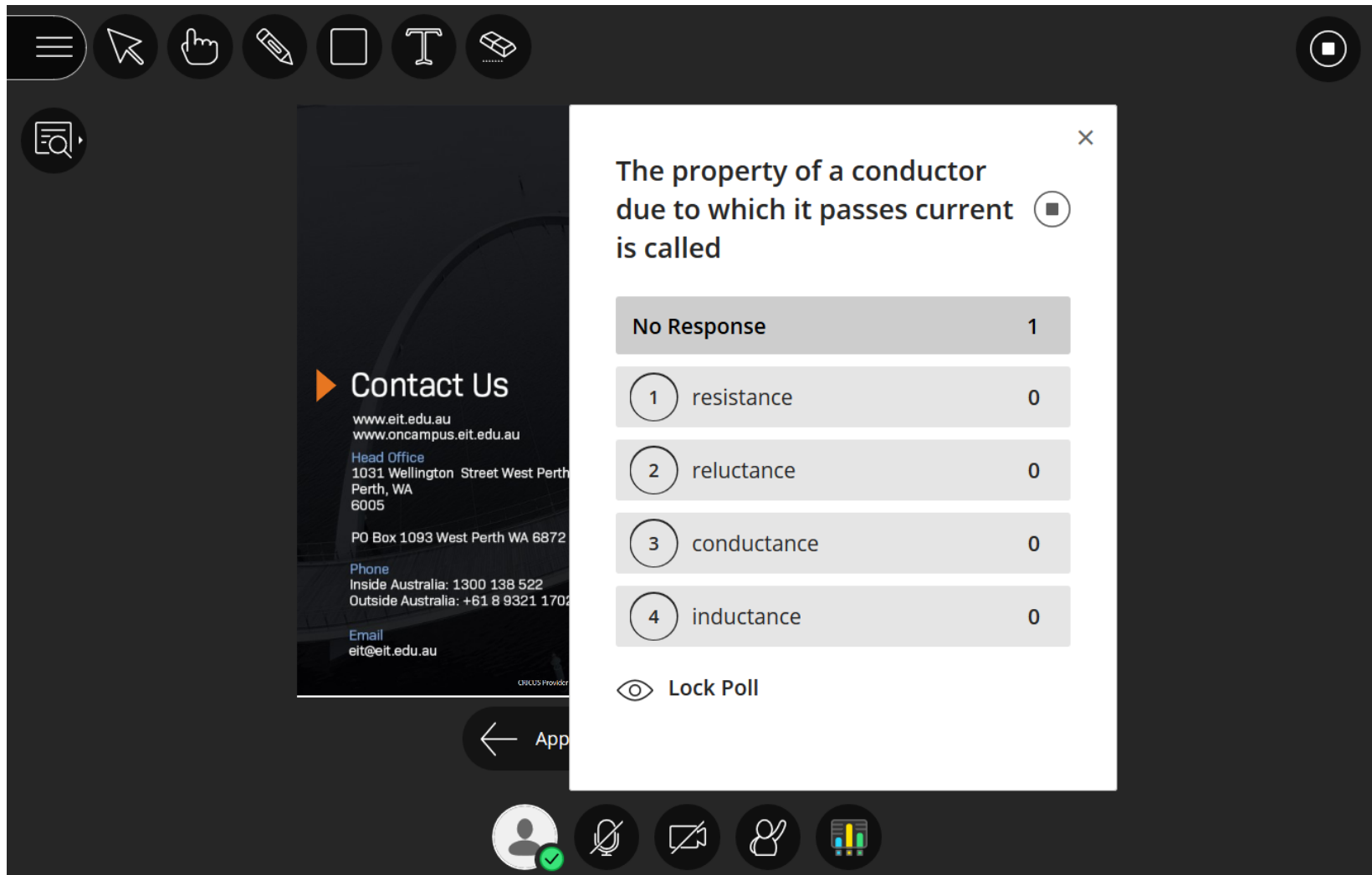


Image 1: A screen shot taken from a Master of Engineering (Industrial Automation) tutorial with Professor Akhtar Kalam.



The screenshot shows a webinar interface with a dark background. At the top, there is a toolbar with icons for a menu, cursor, hand, eraser, rectangle, text, and a small redacted area. On the left, there is a search icon. The main content area is divided into two sections. The left section is a 'Contact Us' page with the following text:
www.eit.edu.au
www.oncampus.eit.edu.au
Head Office
1031 Wellington Street West Perth
Perth, WA
6005
PO Box 1093 West Perth WA 6872
Phone
Inside Australia: 1300 138 522
Outside Australia: +61 8 9321 1702
Email
eit@eit.edu.au
The right section is a poll overlay with a white background and a close button (X) in the top right corner. The poll question is: 'The property of a conductor due to which it passes current is called'. Below the question is a table of options with their respective counts:

Option	Count
No Response	1
1 resistance	0
2 reluctance	0
3 conductance	0
4 inductance	0

At the bottom of the poll overlay, there is a 'Lock Poll' button with an eye icon. The bottom of the webinar interface features a navigation bar with icons for a user profile (with a green checkmark), a microphone, a chat window, a person icon, and a bar chart.

Image 2: An example of polls being utilized in a webinar.

In addition to the webinars and tutorials, students are able to interact with one another via their EIT Learning Management System; in the **student forum**.

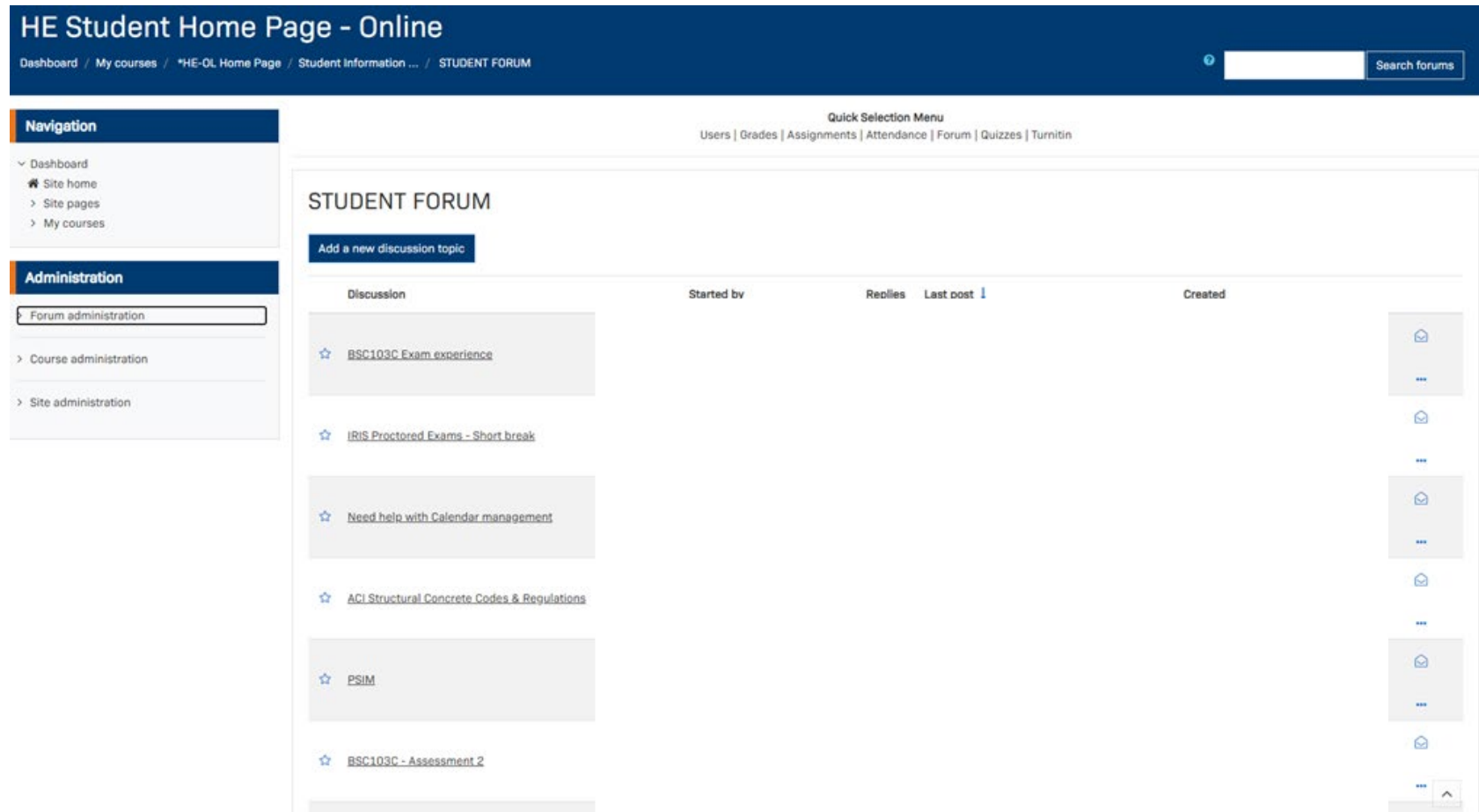


Image 3: An example of the student forum.

Our Online Approach: Study Materials



Delivery

All teaching materials are delivered via our learning management system, including lecture and tutorial slides, and a comprehensive reading list.



eLibrary

We provide an extensive eLibrary and a wide range of engineering-focussed library collections, including over 160 technical engineering manuals.



Resources

We subscribe to several collections from reputable online publishers that are designed to support you throughout your course by providing free access to textbooks, journals, articles, conference papers, and other learning resources such as equations and unit converters.



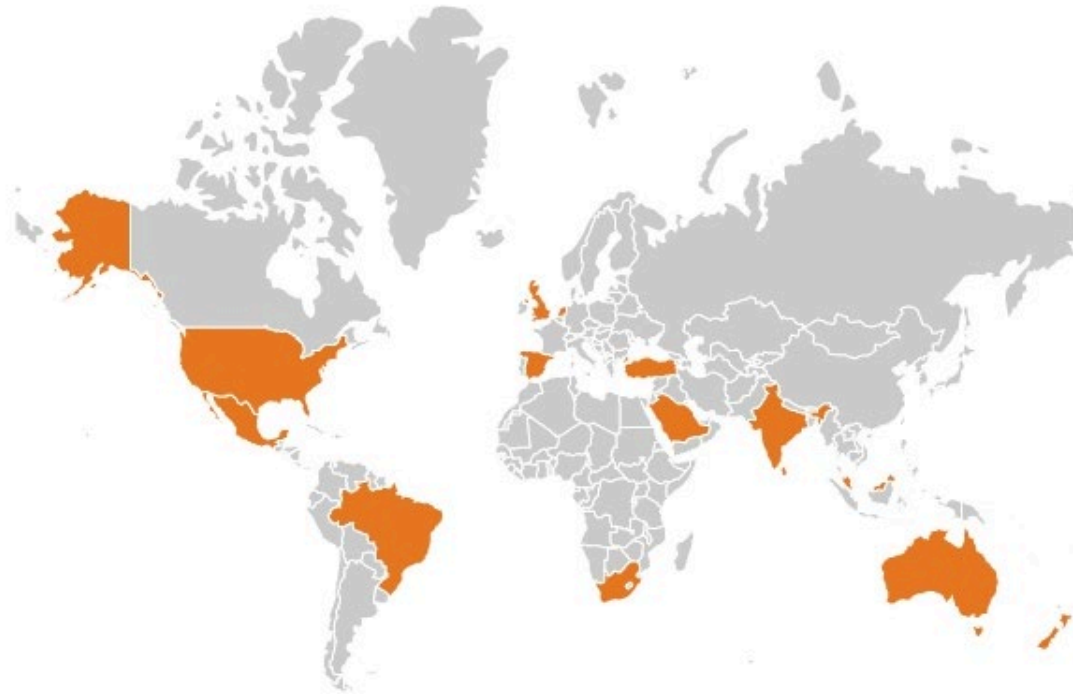
Extra Help

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 previous master's graduates.

EIT's Instructors/Lecturers: Around the Globe

The lecturers presenting EIT courses are **experienced engineers and subject specialists**. There is every possibility that one of these practitioners has tackled challenges that are similar to those that you will or do face daily at work.

The technologies employed by EIT, both online and on-campus, enable us to source our lecturers from a large, global pool of expertise.



Many of our lecturers are working in industry, in addition to their academic backgrounds. Find out more about our lecturers here: www.eit.edu.au/our-instructors/



Meet Dr Ana Evangelista *Civil Engineering Lecturer*

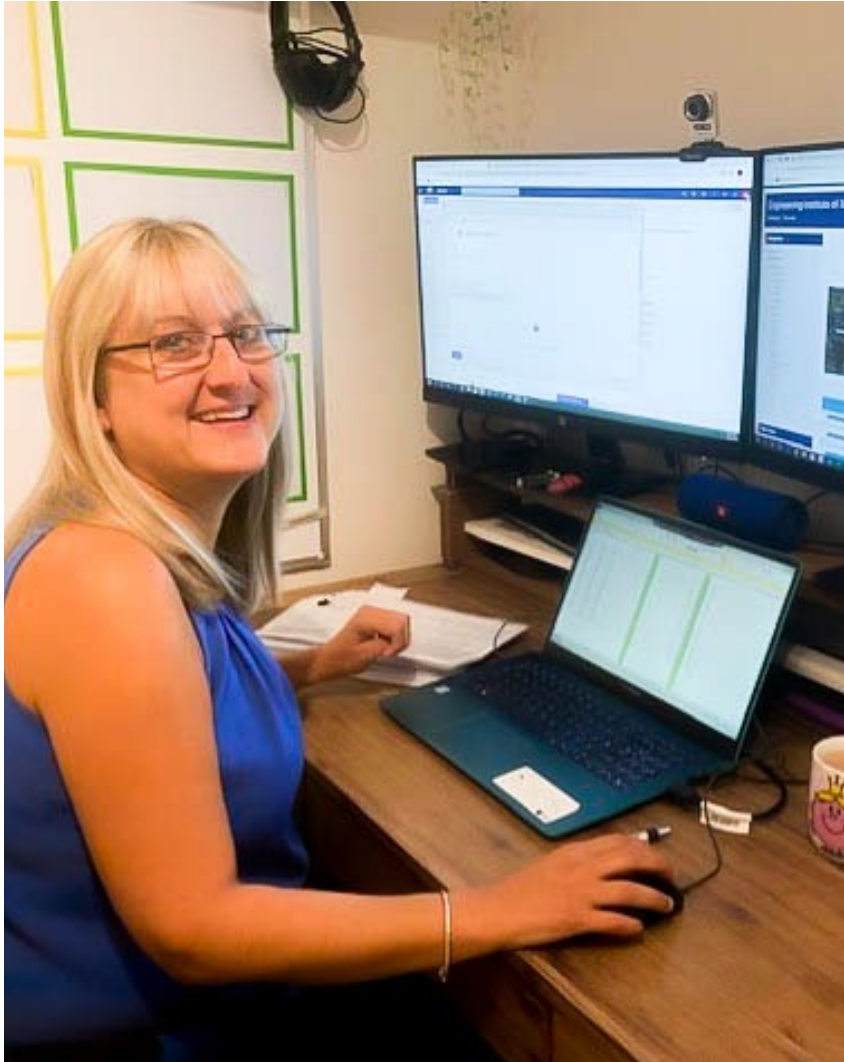
- › Her research in Australia has been focused on sustainability in construction and engineering materials.
- › PhD research was mostly concentrated on non-destructive tests to evaluate concrete structures.
- › In 1997, she started her academic career coordinating and teaching units at the School of Civil Engineering at Federal University of Rio de Janeiro (Brazil).
- › She managed the Construction Materials Laboratory providing external consultancy to the Construction Engineering sector.
- › In 2008, she joined the Environmental Engineering Program at Federal University of Rio de Janeiro (Brazil) conducting research and supervising higher degree students investigating eco-friendly engineering materials.
- › From 2016 to 2019 she worked as a visiting research fellow in the area of recycled concrete at Western Sydney University / School of Computing, Engineering and Mathematics.



Meet Dr Hadi Harb

Industrial Automation Engineering Lecturer

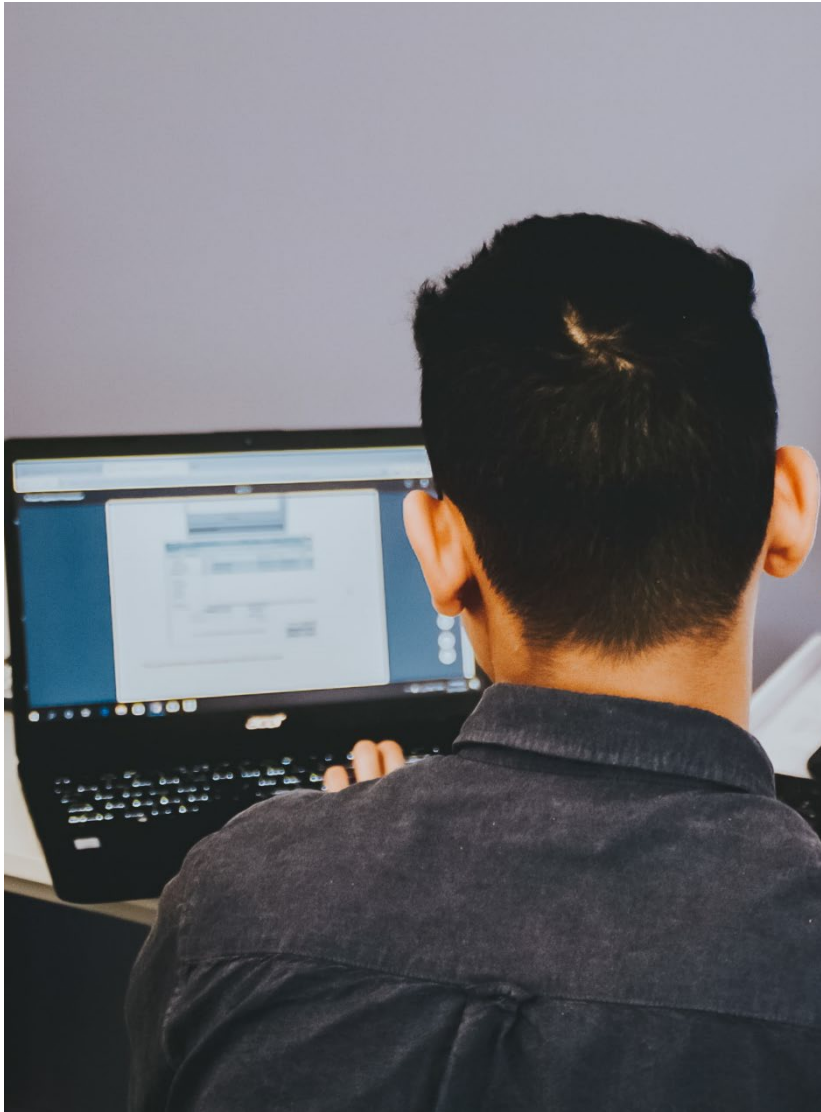
- › He has more than 15 years of experience in the development and management of Artificial Intelligence and Audio Signal Processing projects.
- › He co-founded and managed Ghanni, a company specialized in multimedia content recommendation and identification. His focus is on the application of AI techniques to natural language understanding and human-like process control.
- › Hadi teaches units within the online Professional Certificate of Competency courses, Advanced Diplomas and units within the Master of Engineering degrees.



- › 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 the student for the duration of either a professional certificate or VET program.
- › If a student is studying a degree, they will have a committed LSO for each unit of study.
- › EIT has LSOs based in: *South Africa, Switzerland, New Zealand and Australia.*



Meet Emily Levy | Higher Education LSO
Based in Perth, Western Australia

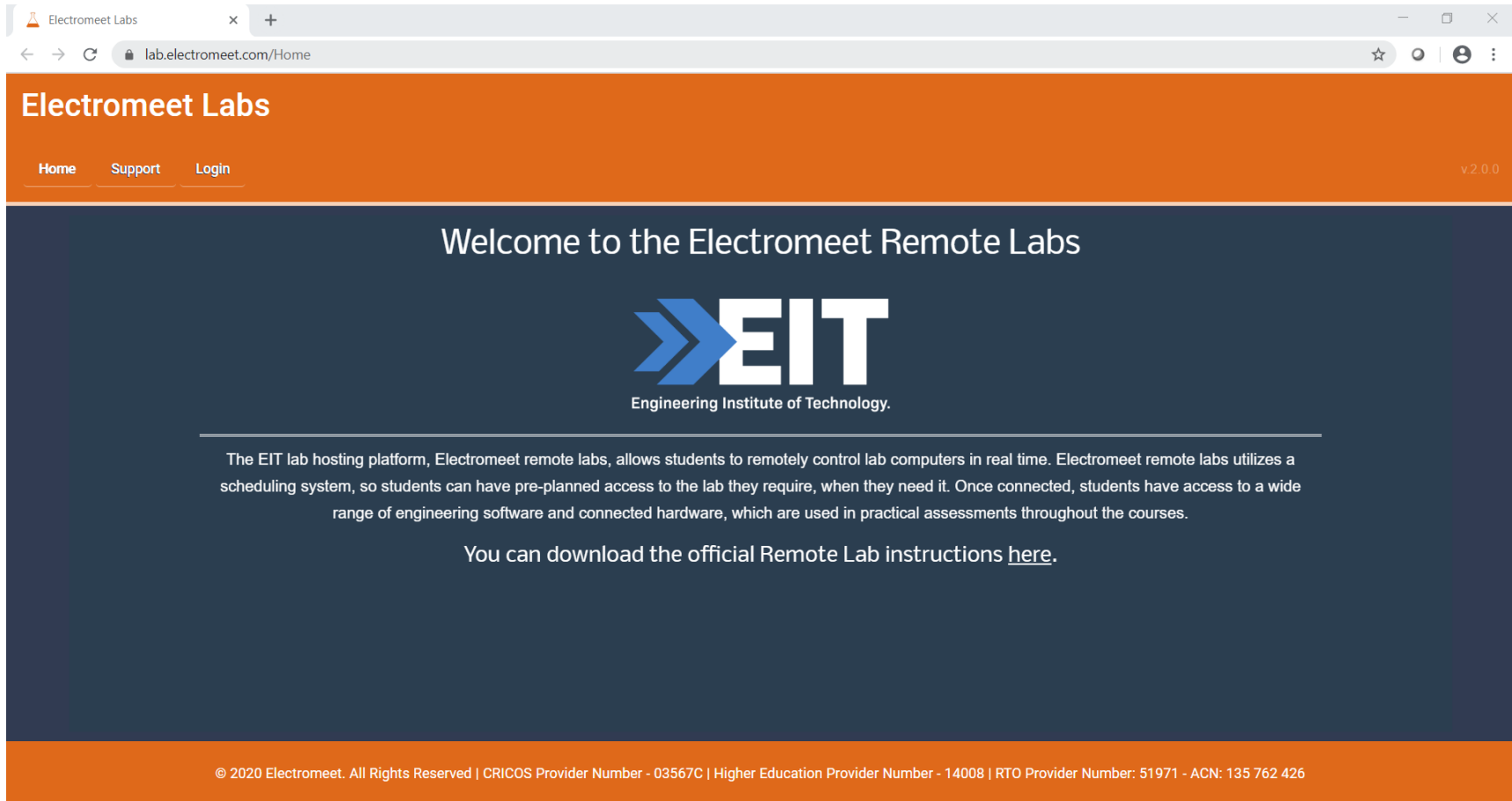


- › In the majority of our programs students complete practical exercises using a combination of remote and virtual laboratories (including simulation software).
- › In these remote and virtual laboratories students can control physical equipment and sensors equivalent to the traditional university engineering lab.
- › This means that even though you are studying online, you are not missing out on your hands-on, practical experience.
- › 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!

An example of one of EIT's remote laboratories.

STEP 1: Login via Electromeet with your unique login details.




The screenshot shows a web browser window with the URL `lab.electromeet.com/Home`. The page has an orange header with the text "Electromeet Labs" and navigation links for "Home", "Support", and "Login". The main content area is dark blue and features the EIT logo (a blue arrow pointing right followed by the letters "EIT" in white) and the text "Engineering Institute of Technology." Below the logo, a paragraph explains that the platform allows students to remotely control lab computers in real time, providing access to engineering software and hardware. A link is provided to download official Remote Lab instructions. The footer contains copyright information for Electromeet and various provider numbers.

Electromeet Labs

Home Support Login v.2.0.0

Welcome to the Electromeet Remote Labs



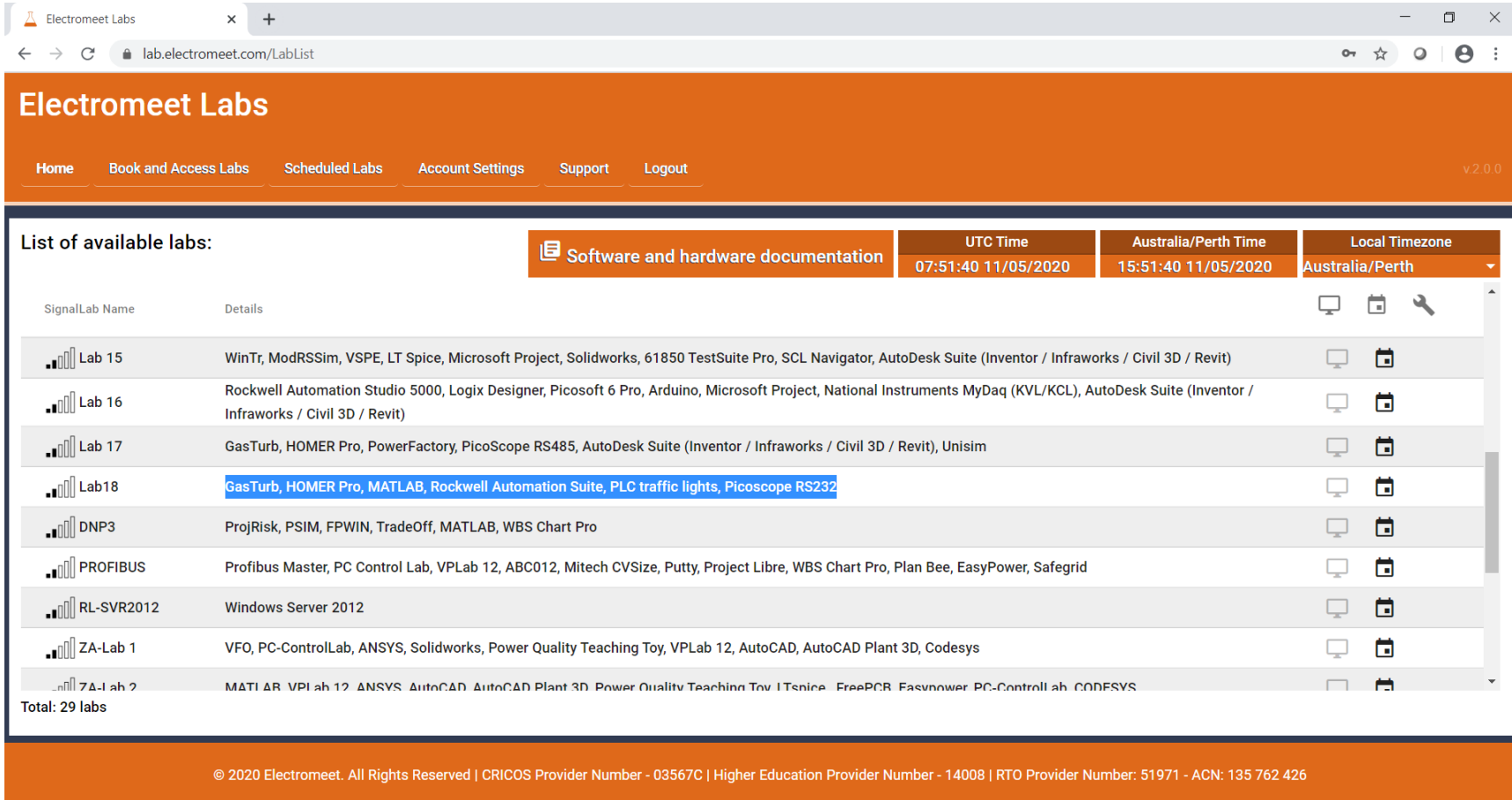
Engineering Institute of Technology.

The EIT lab hosting platform, Electromeet remote labs, allows students to remotely control lab computers in real time. Electromeet remote labs utilizes a scheduling system, so students can have pre-planned access to the lab they require, when they need it. Once connected, students have access to a wide range of engineering software and connected hardware, which are used in practical assessments throughout the courses.

You can download the official Remote Lab instructions [here](#).

© 2020 Electromeet. All Rights Reserved | CRICOS Provider Number - 03567C | Higher Education Provider Number - 14008 | RTO Provider Number: 51971 - ACN: 135 762 426

STEP 2: Book your lab via Electromeet.



The screenshot shows the Electromeet Labs web application. The browser address bar displays 'lab.electromeet.com/LabList'. The page title is 'Electromeet Labs'. A navigation menu includes 'Home', 'Book and Access Labs', 'Scheduled Labs', 'Account Settings', 'Support', and 'Logout'. The version number 'v2.0.0' is visible in the top right corner.

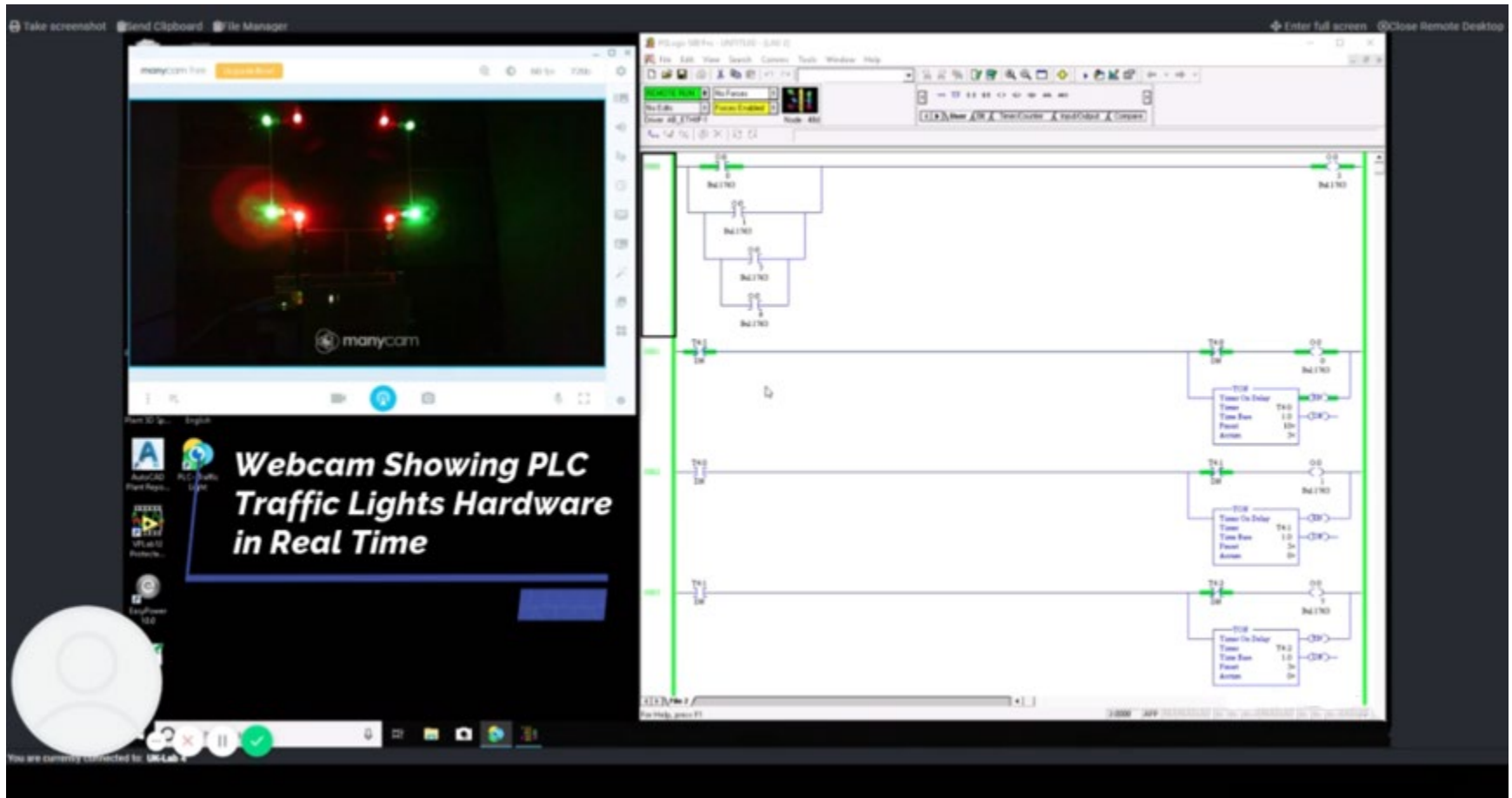
The main content area is titled 'List of available labs:'. It features a table with columns for 'SignalLab Name', 'Details', 'UTC Time', 'Australia/Perth Time', and 'Local Timezone'. A button labeled 'Software and hardware documentation' is located above the table. The table lists 29 labs, with 'Lab 18' highlighted in blue. The 'Local Timezone' dropdown is set to 'Australia/Perth'.

SignalLab Name	Details	UTC Time	Australia/Perth Time	Local Timezone
Lab 15	WinTr, ModRSSim, VSPE, LT Spice, Microsoft Project, Solidworks, 61850 TestSuite Pro, SCL Navigator, AutoDesk Suite (Inventor / Infracworks / Civil 3D / Revit)	07:51:40 11/05/2020	15:51:40 11/05/2020	Australia/Perth
Lab 16	Rockwell Automation Studio 5000, Logix Designer, Picosoft 6 Pro, Arduino, Microsoft Project, National Instruments MyDaq (KVL/KCL), AutoDesk Suite (Inventor / Infracworks / Civil 3D / Revit)			
Lab 17	GasTurb, HOMER Pro, PowerFactory, PicoScope RS485, AutoDesk Suite (Inventor / Infracworks / Civil 3D / Revit), Unisim			
Lab 18	GasTurb, HOMER Pro, MATLAB, Rockwell Automation Suite, PLC traffic lights, Picoscope RS232			
DNP3	ProjRisk, PSIM, FPWIN, TradeOff, MATLAB, WBS Chart Pro			
PROFIBUS	Profibus Master, PC Control Lab, VPLab 12, ABC012, Mitech CVSize, Putty, Project Libre, WBS Chart Pro, Plan Bee, EasyPower, Safegrid			
RL-SVR2012	Windows Server 2012			
ZA-Lab 1	VFO, PC-ControlLab, ANSYS, Solidworks, Power Quality Teaching Toy, VPLab 12, AutoCAD, AutoCAD Plant 3D, Codesys			
7Δ-1 ah 2	MATI AR VPI ah 12 ANSYS AutoCAD AutoCAD Plant 3D Power Quality Teaching Toy LTSpice FreePCB EasyPower PC-ControlLab CODESYS			

Total: 29 labs

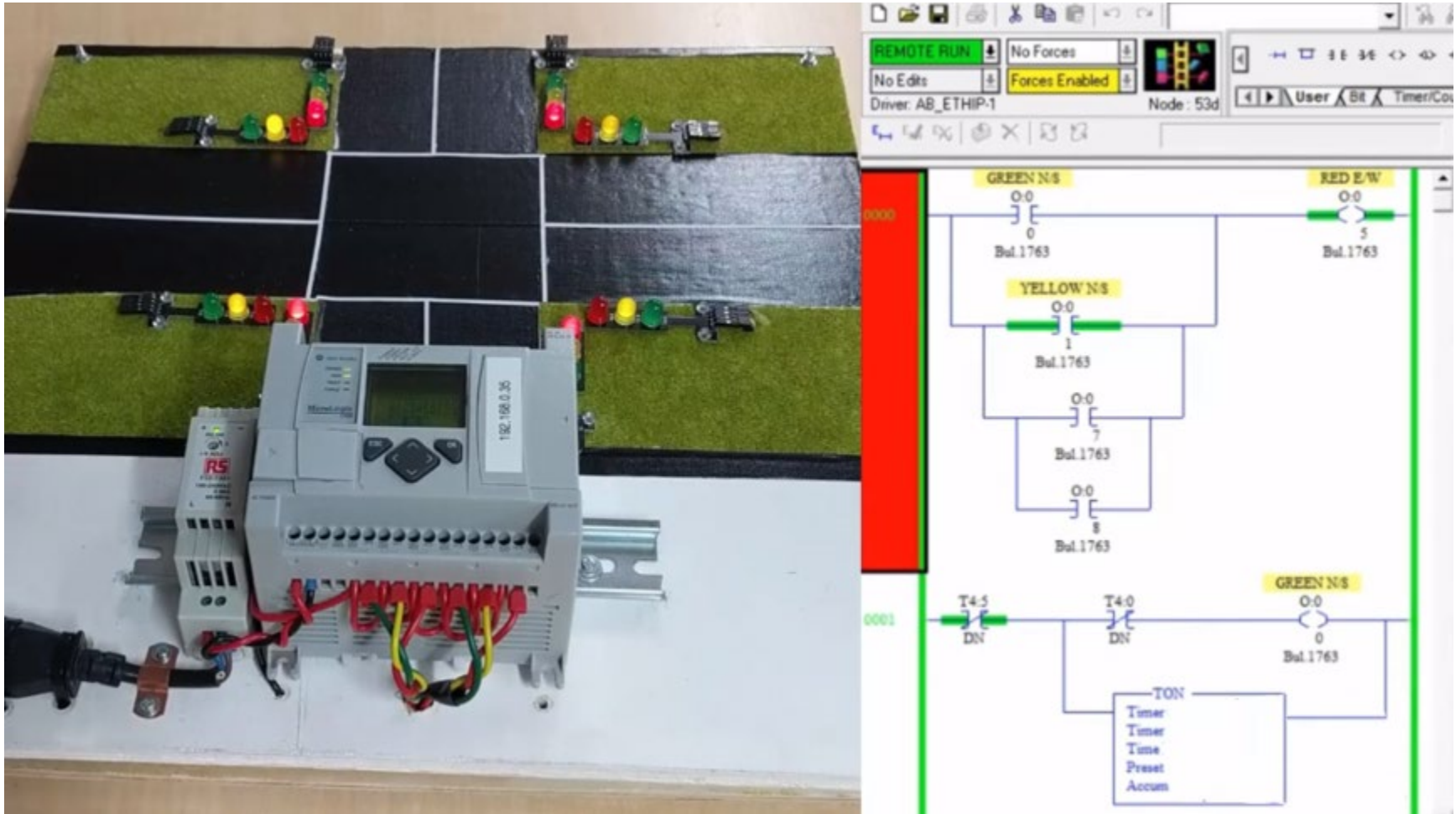
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STEP 3: Begin and operate your laboratory session.



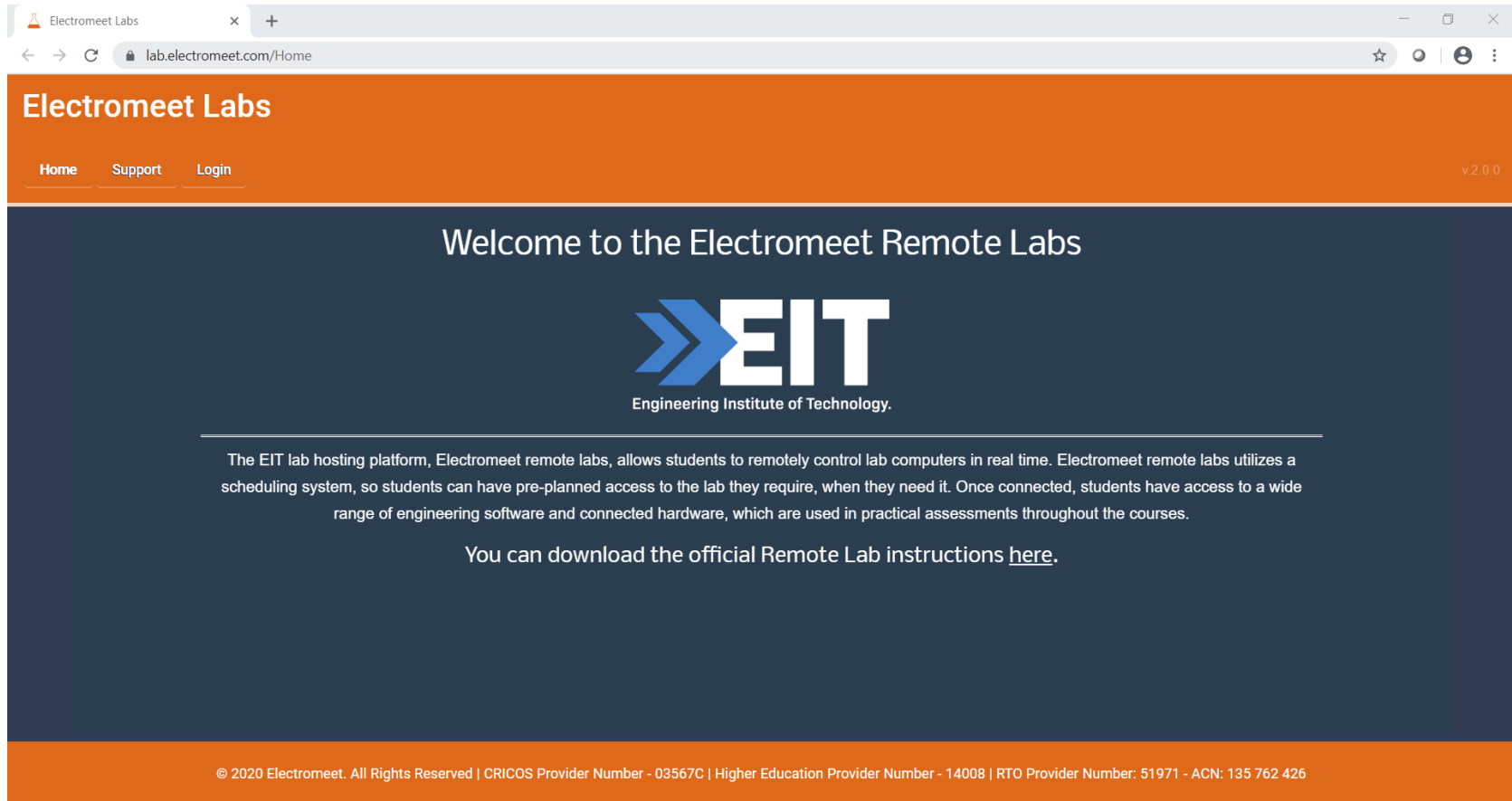
The screenshot displays a remote laboratory session. On the left, a webcam view shows the physical PLC hardware connected to traffic light hardware, with a text overlay that reads "Webcam Showing PLC Traffic Lights Hardware in Real Time". On the right, a software interface displays the ladder logic diagram for the traffic light control system. The diagram features three parallel normally open contacts labeled I0.1, I0.2, and I0.3, which are connected to three parallel coils labeled Q0.1, Q0.2, and Q0.3. Each coil is associated with a timer block (T1, T2, T3) and a normally open contact labeled Q0.1, Q0.2, and Q0.3 respectively. The timer blocks are configured with a "Timer On Delay" function, a "Timer" value of T4.0, a "Time Base" of 1.0, and a "Power" of 0.0. The diagram is displayed in a software window with a menu bar (File, Edit, View, Search, Connect, Tools, Windows, Help) and a toolbar.

STEP 4: Watch your laboratory in real time via the webcam.



An example of one of EIT's virtual laboratories.

STEP 1: Login via Electromeet with your login details.




The screenshot shows a web browser window with the URL `lab.electromeet.com/Home`. The page has an orange header with the text "Electromeet Labs" and navigation links for "Home", "Support", and "Login". The main content area is dark blue and features the EIT logo and the text "Welcome to the Electromeet Remote Labs". Below this, a paragraph explains the platform's purpose: "The EIT lab hosting platform, Electromeet remote labs, allows students to remotely control lab computers in real time. Electromeet remote labs utilizes a scheduling system, so students can have pre-planned access to the lab they require, when they need it. Once connected, students have access to a wide range of engineering software and connected hardware, which are used in practical assessments throughout the courses." A link is provided to download the official Remote Lab instructions. The footer contains copyright information: "© 2020 Electromeet. All Rights Reserved | CRICOS Provider Number - 03567C | Higher Education Provider Number - 14008 | RTO Provider Number: 51971 - ACN: 135 762 426".

Electromeet Labs

Home Support Login

v2.0.0

Welcome to the Electromeet Remote Labs



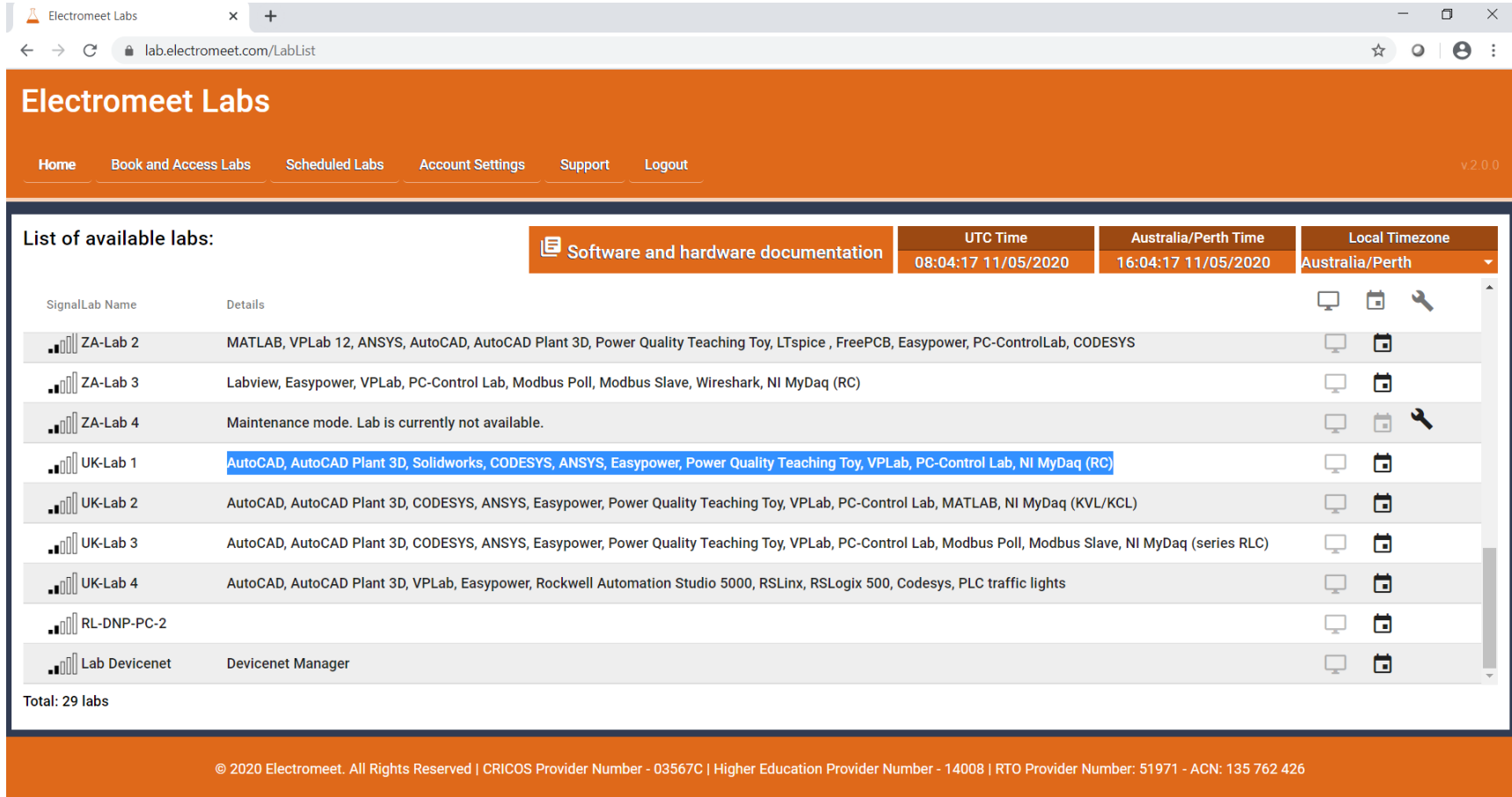
Engineering Institute of Technology.

The EIT lab hosting platform, Electromeet remote labs, allows students to remotely control lab computers in real time. Electromeet remote labs utilizes a scheduling system, so students can have pre-planned access to the lab they require, when they need it. Once connected, students have access to a wide range of engineering software and connected hardware, which are used in practical assessments throughout the courses.

You can download the official Remote Lab instructions [here](#).

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STEP 2: Book your laboratory via Electromeeet.



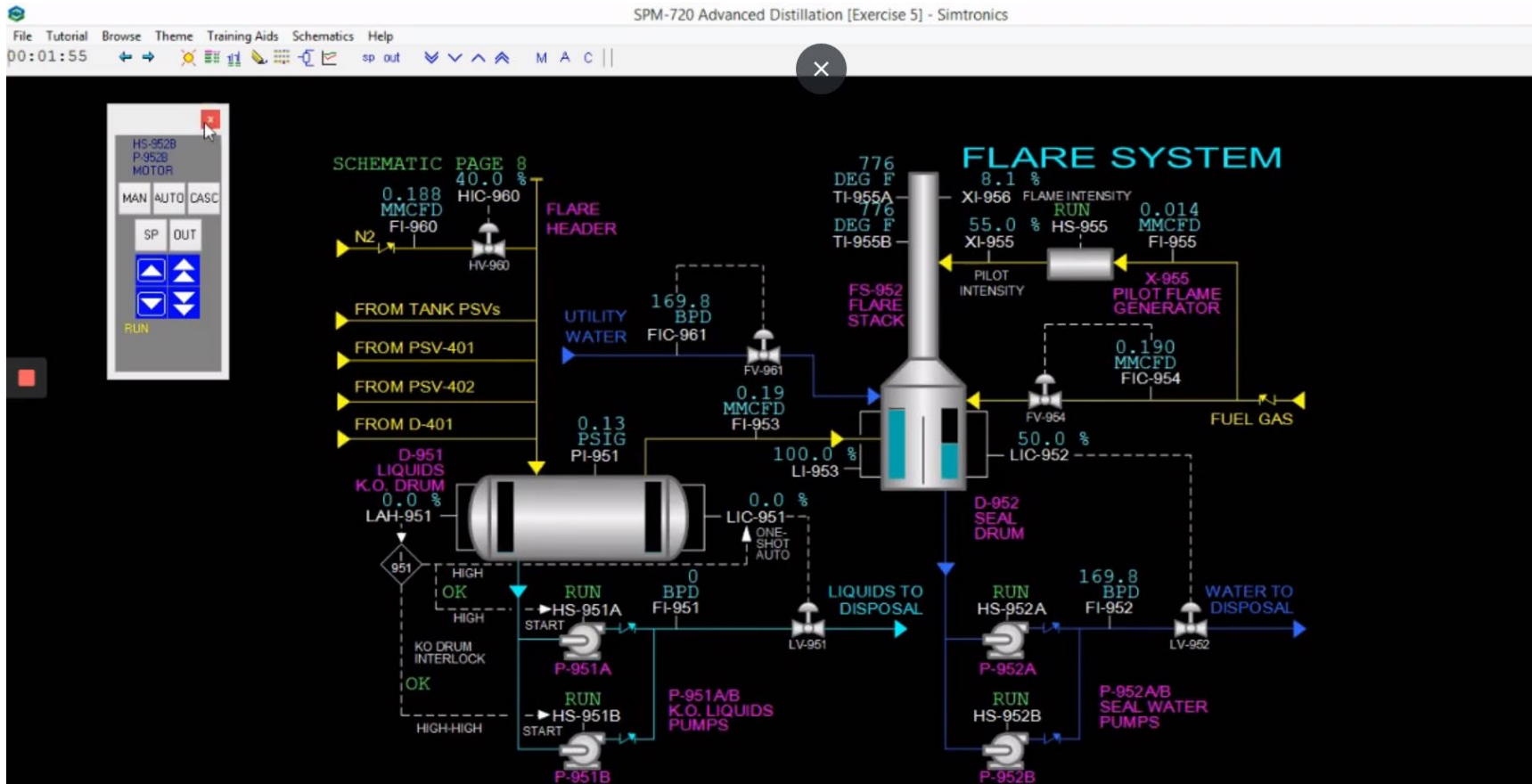
The screenshot shows the 'Electromeeet Labs' website interface. The browser address bar displays 'lab.electromeeet.com/LabList'. The page features a navigation menu with 'Home', 'Book and Access Labs', 'Scheduled Labs', 'Account Settings', 'Support', and 'Logout'. The main content area is titled 'List of available labs:' and includes a table of lab details. A 'Software and hardware documentation' button is visible above the table. The table lists various labs with their SignalLab Names, details, and icons for monitoring, booking, and settings. The 'UK-Lab 1' row is highlighted in blue, indicating it is selected. The footer contains copyright information for Electromeeet and provider numbers.

List of available labs:		Software and hardware documentation	UTC Time	Australia/Perth Time	Local Timezone
			08:04:17 11/05/2020	16:04:17 11/05/2020	Australia/Perth
SignalLab Name	Details				
ZA-Lab 2	MATLAB, VPLab 12, ANSYS, AutoCAD, AutoCAD Plant 3D, Power Quality Teaching Toy, LTspice, FreePCB, Easypower, PC-ControlLab, CODESYS				
ZA-Lab 3	Labview, Easypower, VPLab, PC-Control Lab, Modbus Poll, Modbus Slave, Wireshark, NI MyDaq (RC)				
ZA-Lab 4	Maintenance mode. Lab is currently not available.				
UK-Lab 1	AutoCAD, AutoCAD Plant 3D, Solidworks, CODESYS, ANSYS, Easypower, Power Quality Teaching Toy, VPLab, PC-Control Lab, NI MyDaq (RC)				
UK-Lab 2	AutoCAD, AutoCAD Plant 3D, CODESYS, ANSYS, Easypower, Power Quality Teaching Toy, VPLab, PC-Control Lab, MATLAB, NI MyDaq (KVL/KCL)				
UK-Lab 3	AutoCAD, AutoCAD Plant 3D, CODESYS, ANSYS, Easypower, Power Quality Teaching Toy, VPLab, PC-Control Lab, Modbus Poll, Modbus Slave, NI MyDaq (series RLC)				
UK-Lab 4	AutoCAD, AutoCAD Plant 3D, VPLab, Easypower, Rockwell Automation Studio 5000, RSLinx, RSLogix 500, Codesys, PLC traffic lights				
RL-DNP-PC-2					
Lab Devicenet	Devicenet Manager				

Total: 29 labs

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STEP 3: Begin and operate your laboratory.



STEP 3: Begin and operate your laboratory - continued.

SPM-720 Advanced Distillation [Exercise 5] - Simtronics

File Tutorial Browse Theme Training Aids Schematics Help

00:02:04

SCHEMATIC PAGE 9

PROFITABILITY

DEBITS	COST	RATE	SPEND RATE	TOTAL USED	TOTAL SPENT
Plant feed	80 \$/BBL	1950 BPD	6499 \$/H	5 BBL	387 \$
Vented gas	1.40 \$/MCF	0.000 MMCFD	0 \$/H	0 MMCF	0 \$
Hot oil	3.20 \$/BBL	8449 BPD	1126 \$/H	21 BBL	67 \$
Cooling water	1.60 \$/BBL	16129 BPD	1075 \$/H	40 BBL	64 \$
Time	100 \$/HR	N/A	100 \$/H	3.6 MIN	6 \$
Off-spec heavy	16 \$/BBL	0 BPD	0 \$/H	0 BBL	0 \$
Off-spec light	16 \$/BBL	0 BPD	0 \$/H	0 BBL	0 \$
TOTALS	N/A	N/A	8800 \$/H	N/A	524 \$

CREDITS	PRICE	RATE	EARN RATE	TOTAL MADE	TOTAL EARNED
Heavy product	143 \$/BBL	787 BPD	4686 \$/H	2 BBL	280 \$
Light product	127 \$/BBL	0 BPD	0 \$/H	2 BBL	269 \$
TOTALS	N/A	N/A	4686 \$/H	N/A	549 \$

PROFIT/LOSS					
	N/A	N/A	-4114 \$/H	N/A	25 \$

STEP 3: Begin and operate your laboratory - continued.

SPM-720 Advanced Distillation [Exercise 5] - Simtronics

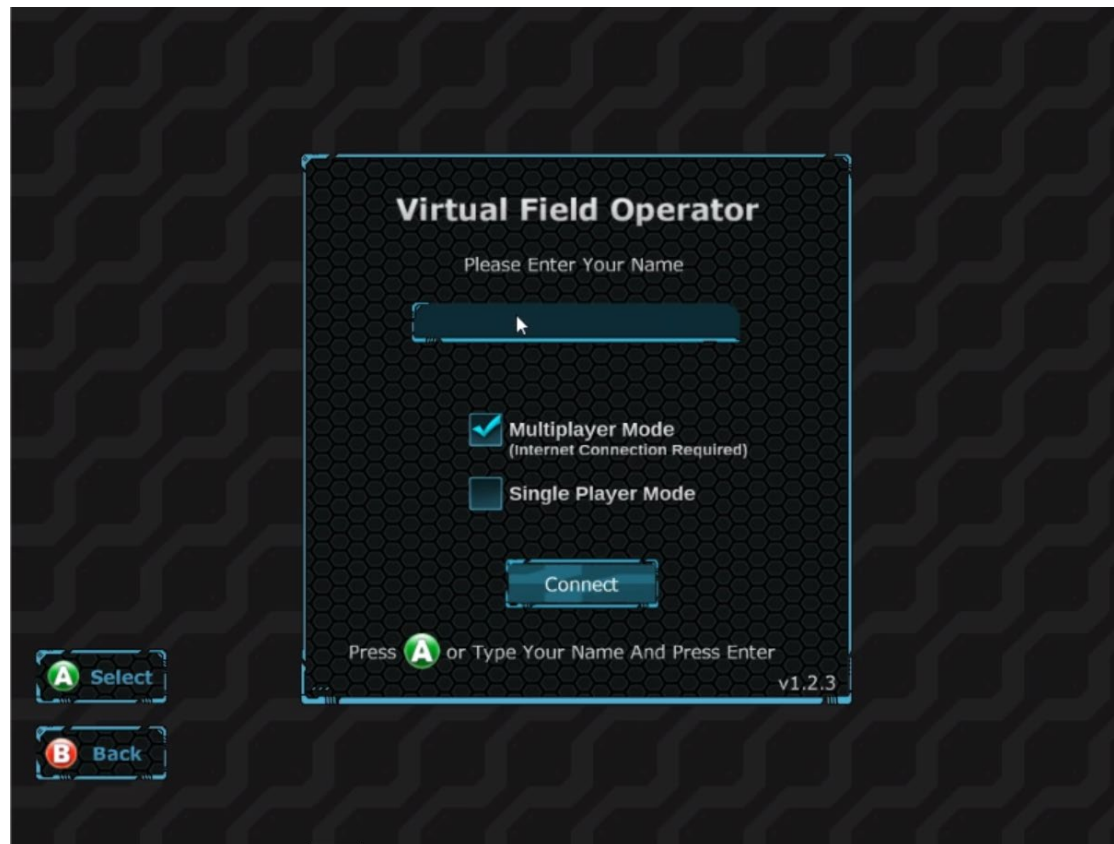
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00:02:16 sp out M A C ||

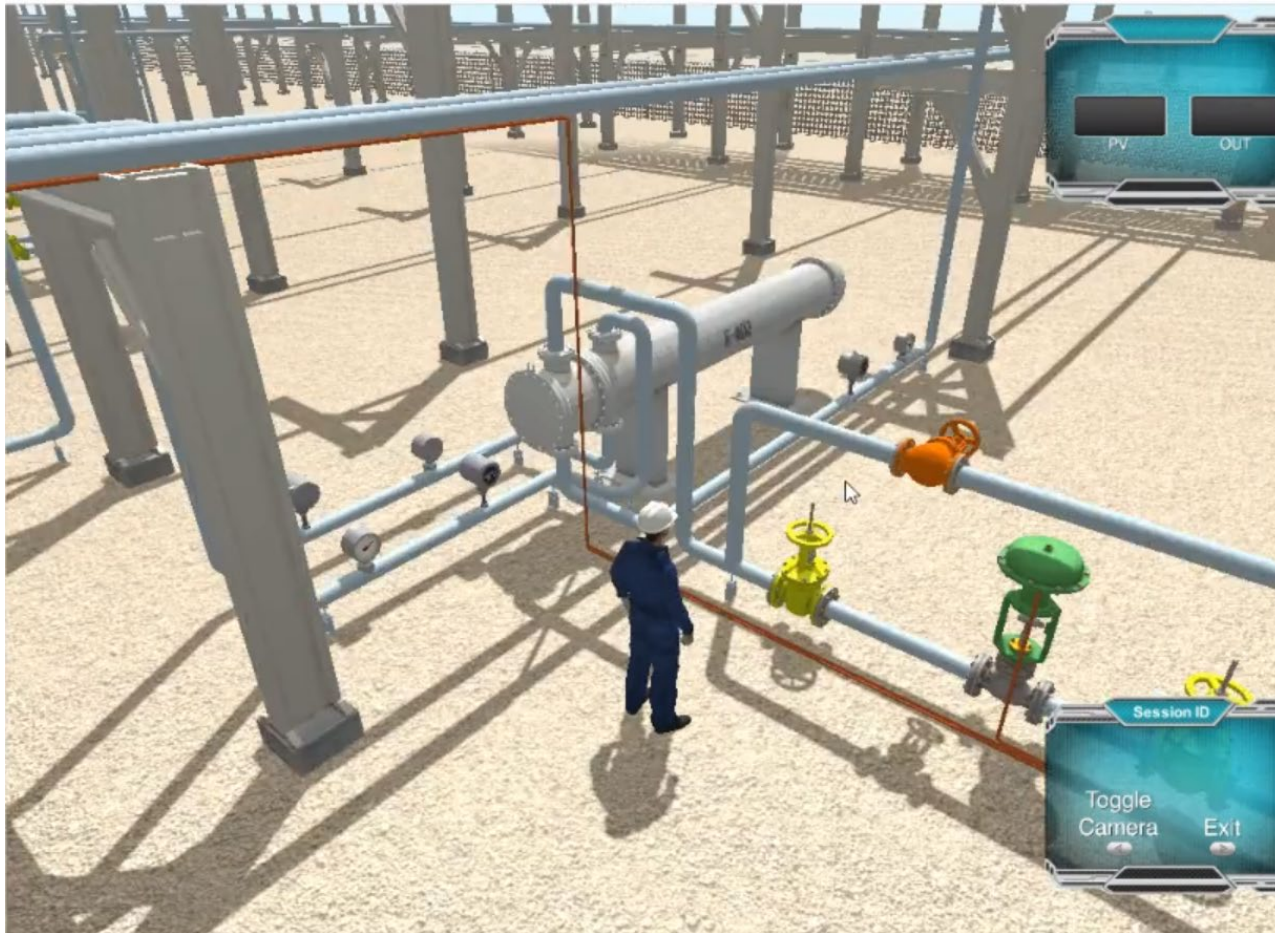
SCHEMATIC PAGE 10 **CRITICAL SAFETY PERFORMANCE**

EQUIPMENT	TAG	PV	HI ENABLED	LO ENABLED	PENALTY
V-101	LIC-101 PI-101	50.0 % 12.5 PSIG	YES YES	YES NO	0.0 0.0
T-401	LIC-411 PI-403	50.0 % 130.4 PSIG	YES YES	YES NO	0.0 0.0
E-403	TI-417	78.8 DEG F	YES	NO	0.0
E-401	TI-412	91.7 DEG F	YES	NO	0.0
D-401	LIC-412 PIC-412	50.0 % 126.0 PSIG	YES YES	YES NO	0.0 0.0
E-404	TI-418	81.8 DEG F	YES	NO	0.0
V-901	LIC-901 PI-911	52.9 % 25.6 PSIG	YES YES	NO NO	0.0 0.0
V-902	LIC-902 PI-912	50.0 % 0.0 PSIG	YES YES	YES NO	0.0 0.0
V-903	LIC-903 PI-913	50.4 % 0.0 PSIG	YES YES	NO NO	0.0 0.0
D-951	LAHI-951 FI-960	0.0 % 0.188 MMCFD	YES NO	NO YES	0.0 0.0
D-952	LI-953 LIC-952	100.0 % 48.0 %	NO YES	YES YES	0.0 0.0
FS-952	XI-955	54.9 %	NO	YES	0.0
TOTAL					0.0

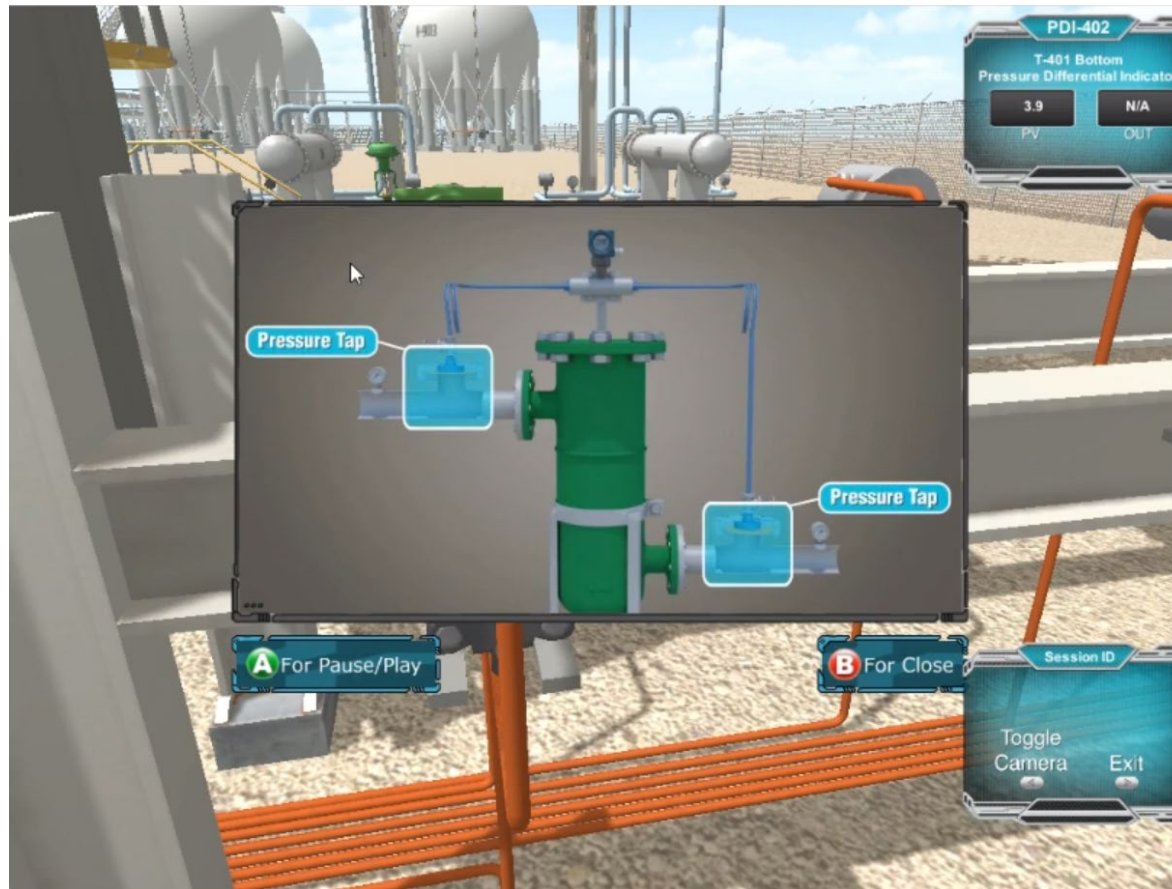
STEP 4: Continue into the simulation via the virtual laboratory. This particular example has a Virtual Field Operator program which enables users to virtually walk around and interact with the process plant.



STEP 5: Virtually walk around the plant.



STEP 5: Virtually walk around the plant and ensure the plant equipment is operating efficiently and safely.



Tech Topic

Topic: Making Concrete Green: Sustainability in Engineering

Date: 9 December, 2020

Time: 3.30pm – 4.30pm AWST

Online Engineering Student

Topic: Undergraduate & Graduate Certificates

Date: Thursday 17 December

Time: 3.30pm – 4.30pm AWST

On-Campus Engineering Student

Topic: Internships as part of the on-campus experience.

Date: Wednesday 16 December, 2020

Time: 3.30pm – 4.30pm AWST

Please email: caroline.mackay@eit.edu.au if you would like to join any of these webinars.



Q & A



Contact Us

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