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Make Your Mark With an EIT Professional Doctor of Engineering

Information Webinar | Wednesday, 28th of April

Presented by

Indumathi V | *EIT's Deputy Dean*

Professor Akhtar Kalam | *Chair of EIT's Academic Board*

Agenda

1 Welcome

2 An overview of EIT

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EIT's Doctor of Engineering (DEng)

1. Course structure
2. Entry requirements
3. Pathway/credit
4. Job outcomes
5. How to Apply
6. Student support
7. Scholarships & Assistantships

4 Q & A



Indumathi V

Deputy Dean of EIT

Indu has over 17 years of experience in Engineering, Leadership and Engineering Education and is currently a PhD Student (Engineering Education).

As a passionate educator, her current PhD project focuses on using EEG brainwaves to empower student engagement and participation in the classroom.

"EIT has grown very strongly since I started at the beginning of 2019. Their innovative approach to accessible, flexible, and high-quality education is like no other in the world. The success is strongly attributed to the passionate team of lecturers and staff here at EIT."



Professor Akhtar Kalam

Head of EIT's Academic Board

Currently working as the Head of External Engagement in the College of Engineering and Science at Victoria University, Melbourne. A former Deputy Dean of the Faculty of Health, Engineering and Science for 7 years.

Concurrent appointment as Distinguished Professor at the University of New South Wales, Sydney, Australia; MRS Punjab Technical University – Bhatinda, India; Crescent University – Chennai, India; VIT – Vellore, India and 5 Malaysian universities.

He is currently the Editor in Chief of the Australian Journal of Electrical and Electronic Engineering.

He has conducted research, provided industrial consultancy and published over five hundred publications on his area of expertise and written over 29 books in the area.

More than 40 PhD students have graduated under his supervision.

He is an external examiner of many external doctoral students in Australia and overseas.

His major areas of interests are power system analysis, communication, control, protection, renewable energy, smart grid, IEC61850 implementation and cogeneration systems.

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.



World Class Universities

1. High in ranking lists
2. Employment recognition
3. Research: creating and disseminating knowledge
4. Scale of the university



World Class Higher Education

1. International recognition, benchmarking and partnering
2. Long term Graduate employability
3. Excellence in Teaching, Learning and Assessment (TLA)
4. International Performance Standards
5. Scholarly activity to support TLA

*Synthesized from presentations at 17th Malaysian Education Summit: Moving Towards a World Class Education System: Building and Sustaining World Class Universities ASLI June 2013

Professional Doctor of Engineering



About

Graduates of the Professional Doctor of Engineering (DEng) will be able to 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.

An Australian accredited qualification (accredited by the Tertiary Education Quality and Standards Agency (TEQSA); Australia's independent national quality assurance and regulatory agency for higher education).



Level
Leads to an Australian Qualification Framework (AQF) level 10



Duration
3 years full time



Delivery
Online
(On-campus start date pending)



Structure
120 credit points:
32 coursework +
88 research
Coursework +
doctoral
dissertation

Course Structure

Year 1	Units	Research or Coursework	Credit Points
Terms 1 & 2 (equivalent to 1 semester)	• DEng601 - Engineering Practice and Key Research Methodology	Coursework	4
	• DEng602 - Technology Evaluation and Intellectual Property	Coursework	4
	• DEng603 - Applied Mathematical Modelling and Simulation	Coursework	4
	• DEng604 - Data Acquisition	Coursework	4
Terms 3 & 4 (1 semester)	• DEng700 - Research Project Proposal (over 2 terms)	Research	12
Year 2			
Terms 1 & 2 (equivalent to 1 semester)	• *DEng801 - Advanced Data Analysis	Coursework	8
	• DEng802 - Doctoral Dissertation Research Paper 1	Research	14
Terms 3 & 4 (1 semester)	• *DEng803 - Big Data Analysis and Pattern Recognition	Coursework	8
	• DEng804 - Doctoral Dissertation Research Paper 2	Research	14
Year 3			
Terms 1 & 2 (2 semesters)	• DEng900 - Doctoral Dissertation (over 4 terms)	Research	48
Total Coursework Units (equivalent to 2 semesters)			32
Total Research Units (equivalent to 4 semesters)			88
TOTAL CREDIT POINTS (equivalent to 6 semesters or 3 years)			120

* Elective units - Other approved postgraduate unit/s as appropriate to the relevant field of study (Master- year 2 level unit) can be taken on by the student in consultation with their supervisor. These alternative unit/s, endorsed by the supervisor, must be approved by the ACC/Deputy Dean. DEng801 & DEng803 units need to be substituted with 2 MEng elective units for credit equivalence.

Why EIT'S DEng?



Flexibility

Our online programs are designed to suit working professionals with practical experience in their field.



Unique Delivery Model

We deliver our online programs via a unique methodology that has been honed over 10 years.



Industry Oriented

Applied, industry focused and provides mutual benefit to industry and academia.



Work Integrated

Link your education to workplace issues and solve problems that you are passionate about in innovative and flexible ways.



Research

You will pursue an independent investigation into a research problem of your own design that makes a significant and original contribution to knowledge in the context of professional practice.



Contribution

Prepares candidates for the highest level of professional practice, in which they can contribute significantly to the development of their discipline in Engineering.

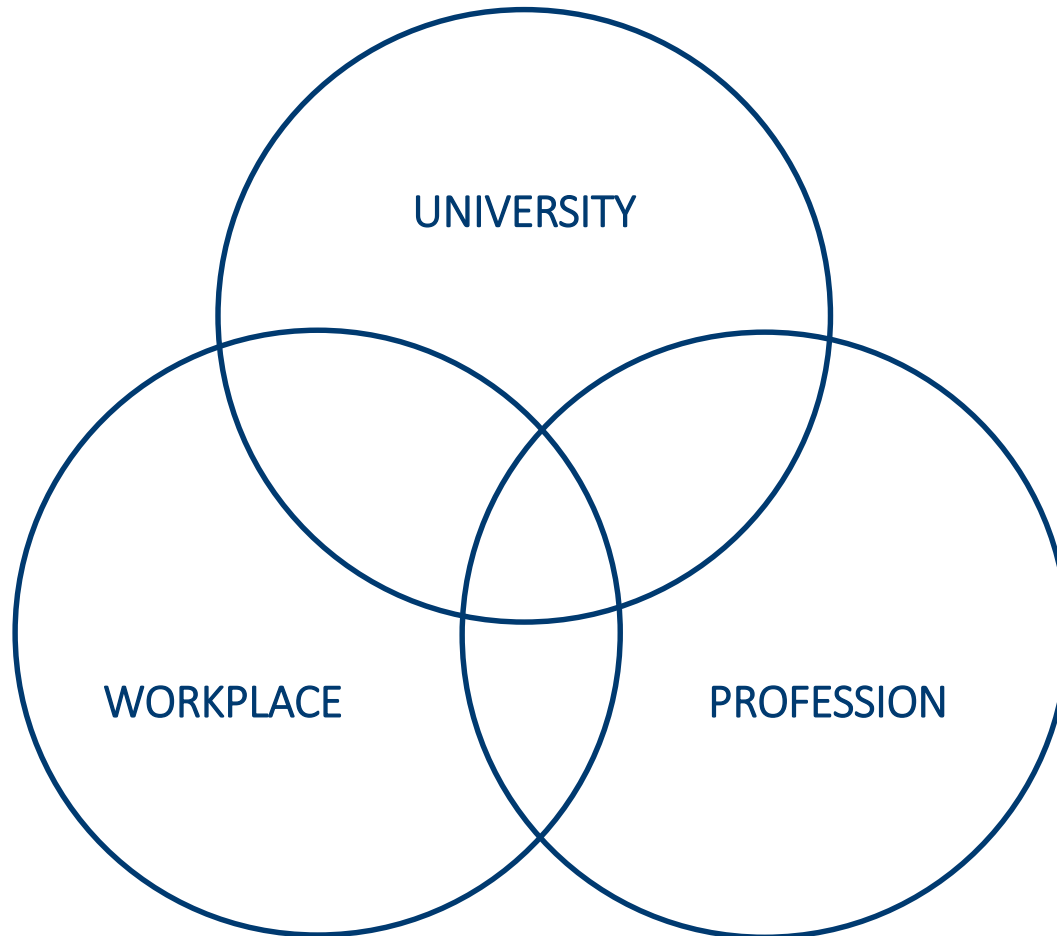


Figure 1: The Hybrid Curriculum of the Professional Doctorate
(Adapted from Lee, Green and Brennan (2000) referenced in Malfroy and Yates (2003))

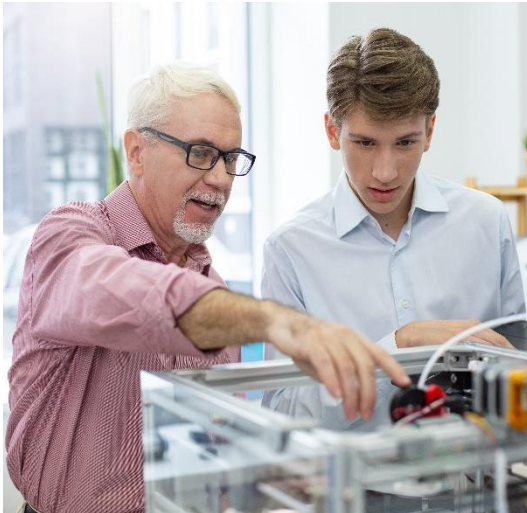
<http://www.proceedings.informingscience.org/InSITE2006/IJDSv1p035-044Fink14.pdf>

To gain entry into this program, applicants need one of the following:

- A. BE Honours, Graduate Diploma (or equivalent) with minimum Second-Class Honours Division A (H2A) **OR**
- B. An appropriate and relevant Master degree from EIT or other recognised tertiary institution **OR**
- C. Satisfying the Dean (or delegate) of their fitness to undertake further advanced work. This would be established by:
 - *Relevant four-year undergraduate qualification from a recognised institution* **AND**
 - *Submission of a resume demonstrating, at least five years professional practice in a relevant field with ability to demonstrate, or be in a position to produce their own substantial, original professional contributions in the relevant engineering field and/or published research work* **AND**
 - *An appropriate level of English Language Proficiency as outlined in the Admissions Policy.*

More information can be found here: <https://www.eit.edu.au/cms/courses/doctor-of-engineering>

- A. A candidate can apply for credit at the point of admission. Credit will not be granted towards a thesis, dissertation or alternative research component.
- B. Any candidate transferring from a coursework Master degree from EIT or another recognised institute or university may apply and receive credit for a maximum of 2 units (8 credit points).
- C. Any candidate transferring from a Master's degree by research from a recognised institution may apply and receive credit for a maximum of 2 units (8 credit points).
- D. Any candidate transferring from a professional doctorate degree from a recognised institution may apply and receive credit for a maximum of 2 units (8 credit points).
- E. Direct Entry will only be granted to graduates of Bachelor Honours, Graduate Diplomas or Masters from a cognate discipline from a recognised institution.
- F. Graduates of a 3-year Bachelor degree will NOT be granted direct entry (regardless of work experience) and will be advised to successfully complete an EIT Graduate Diploma or a two-year EIT Master degree to gain entry.



Academic sector

Attract talented researchers and professionals with the ability to communicate effectively to contribute to their local and international profile and reputation.



Businesses and organizations in the private sector

Hiring researchers/professionals to develop and improve products, processes or services, and create a competitive edge through innovation.



Government agencies

Hiring researchers/professionals is a way to access specialist knowledge and skills.

Application Cut-Off Date: 24 May, 2021 (this has been recently updated)

Program Start Date: 28 June, 2021

It will take approximately 3 weeks from submitting your application to receiving your Letter of Offer.

1. Visit our website and fill in an enquiry form.
2. An EIT Course Advisor will call you to discuss your enquiry.
3. You will receive an email which provides you details about the start date, cost of the program and a link to our online application portal.
4. Your application will need to include a resume, a 500 word statement as to why you wish to complete the Doctor of Engineering and 1000 word research proposal. Certified identity and academic documents will also need to be provided.
5. If you wish to discuss your research proposal with a member of the academic team before completing your application, please let your Course Advisor know and they will provide the relevant contact details.
6. Once you complete your application, our admissions team will assess it for entry requirements.
7. If you meet entry requirements, your application will be forwarded to the Research Committee for review and allocation of a potential supervisor.
8. All applications will be interviewed (with research supervisor and delegate).
9. Letters of Offer will be sent via admissions.

Student Support



Learning Support Officer



Associate/Assistant Supervisor



Research Coordinator



Industry Supervisor as appropriate



Comprehensive Orientation



Library Resources



Academics



Study support



Principal Supervisor



Remote labs and simulation software



Conference support/Journal
Publication Support



Scholarships via assistantships

Scholarships & Assistantships

EIT Dean's High Achievers Doctorate Scholarship	
<i>Applicable to:</i>	Domestic and International students who have a record of academic excellence and high achievement and who are seeking to commence the Professional Doctor of Engineering program at EIT.
<i>Number offered:</i>	Limited to 2 scholarships per semester*
<i>Value:</i>	25% discount on tuition fees for the next term/semester**
<i>Delivery locations:</i>	Online

**When multiple applications meeting the eligibility criteria are received, the scholarship panel will select 2 recipients based on higher academic grades.*

***Discounts will be applied to the tuition fees for up to a maximum of 4 units in one semester/term. Discounts are applied to the amount and currency invoiced to the student.*

Assistantships	
<i>About:</i>	Research Doctorate students may be awarded assistantships, which fall into 2 general categories: Teaching Assistant (TA) and Graduate Assistant (GA). Assistantships are an arrangement in which financial support is given to a graduate student who engages in teaching and/or research in furtherance of the institute's academic mission, as well as his or her graduate education.
<i>Applicable to:</i>	Full-time and part-time Doctorate students
<i>Value:</i>	10% discount on total tuition fees for the next term/semester* Teaching assistants and Graduate assistants will be paid at a stipend rate of AUD\$32/hour or equivalent for their duties

**Discounts will be applied to the tuition fees for up to a maximum of 4 units in one semester/term. Discounts are applied to the amount and currency invoiced to the student.*

Full Scholarship and Assistantships information, including eligibility criteria and conditions, will be available on the EIT website: www.eit.edu.au

Watch this space for an exciting development!

- Start date to be confirmed
- Campus Locations: Perth, Western Australia and Melbourne, Victoria
- Our on-campus students will have the same support as our online mode and with access to our on-campus facilities

“I find the initial stages of the Professional Doctor of Engineering from EIT very informative and prepares the candidate for the next stage of applied research. Therefore, the candidate is allowed time to develop their research topic.”

- Martin Masemola, current EIT DEng student



- Enhancing Energy Efficiency via Building Design
 - Thursday 29 April, 2021
 - 4:30pm-5:30pm AWST (GMT+8)
 - Presented by Dr. Ana Evangelista, EIT's Civil and Structural Engineering Lecture
 - Register here:
<https://www.eit.edu.au/event/enhancing-energy-efficiency-via-building-design/>

Keep up to date with our upcoming webinars on the EIT event page here:
<https://www.eit.edu.au/news-events/events/>

Q & A



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