



Kuala Lumpur Campus

UCSI University: 32 years and counting

Built on the principles of audacity, perseverance, integrity and excellence, UCSI University is a leading institution of higher learning with campuses in Kuala Lumpur, Terengganu and Sarawak, Malaysia. Our faculties, equipped with state-of-the-art facilities to meet student needs offer a wide spectrum of academic programmes, ranging from Medicine, Pharmacy, Nursing, Engineering and Architecture to Music, Multimedia, Education, Liberal Arts and Hospitality.

UCSI University is a vibrant community of learning and scholarship. With more than 10,000 students from 110 different countries, the University stands out as a melting pot of diversity and learners will supplement their pursuit of knowledge with a keen sense of cultural appreciation – a vital trait in today’s borderless world. As one of Malaysia’s first private universities, UCSI University has long impacted the nation al higher education landscape and the University continues to do so with its wide range of undergraduate and postgraduate programmes.



UCSI University
MALAYSIA'S
#1
PRIVATE
UNIVERSITY
RANK 481. TOP 2% OF ALL
UNIVERSITIES WORLDWIDE.

QS WORLD UNIVERSITY RANKINGS
TOP 500
2019

UCSI University is the only Malaysian private university to be ranked top 500 in the QS World University Rankings 2019.

The University's academic staff are at the forefront of their disciplines and their views are highly sought after on major issues; from business to political science. Many of our academics have extensive experience working overseas and some play advisory roles in public bodies and various committees. By bringing their experiences into the classroom, our academics cater to an exhilarating learning environment and learners will thrive as they balance academic mastery with industrial application.

UCSI University's strong track record of university-industry engagement has attracted attention from the powers that be and the University is entrusted to reshape Malaysia's tourism and hospitality industry through education. By leading the Malaysian Centre of Tourism and Hospitality Education – a consortium of Malaysia's foremost education institutions – that endeavours to equip at least 50% of the industry's workforce with a diploma or a degree by 2020, UCSI University stands in the nation's service and that of the global community.

Building on its domestic standing as a preferred and trusted education provider, the University is also expanding its sphere of influence. Tie-ups with foreign universities, research institutes and leading multinational companies are constantly established, enhancing opportunities for students and staff in the areas of research and development, mobility programmes and career opportunities, among others.

While these developments are encouraging, the true story of the University is about its students. Many of our alumni have gone on to achieve great things in life – from business to science and the performing arts. Most remain in close contact and the University is gratified to play a role in grooming movers and shakers that define today's – and tomorrow's – world.

Since its inception in 1986, UCSI University has been committed to further the discovery and celebration of knowledge. The University's commitment – and success – in undergraduate teaching is matched by its progress in research and the discovery of knowledge, making it a true hub of higher education. Seeking to open doors for students around the world, the University's generous financial aid programme ensures that prodigious students from all economic backgrounds can afford a UCSI University education.

Vision

To be an intellectually resilient praxis university renowned for its leadership in academic pursuits and engagement with the industry and the community

Mission

- To promote transformative education that empowers students from all walks of life to be successful individuals with integrity, professionalism and a desire to contribute to society.
- To optimise relationships between industry and academia through the provision of education and unparalleled workplace exposure via praxis centres.
- To spearhead innovation in teaching and learning excellence through unique delivery systems.
- To foster a sustainable culture of research, value innovation and practice, in partnership with industries and society.
- To operate ethically at the highest standards of efficiency, while instilling values of diversity and inclusiveness, to sustain the vision for future generations.

Industrial PhD in Engineering

Faculty of Engineering, Technology & Built Environment

INTAKE Sept 2018



Approval Code: N/520/8/0101
Classification: Doctor of Philosophy (PhD)
Subject Area: Engineering
Course Duration: 3 years
Course Location: Kuala Lumpur

THE BELT & ROAD
it's touchable and reachable!

(1) OVERVIEW

Preparing for Industry 4.0

The whole world talks about the next industrial revolution, the 4th to be exact. And in some circles, they refer to it as industry 4.0. If the internet has been the disruptive force in global business, industry 4.0 will be more than just disruptive. It will cause a seismic shift in the way businesses are conducted. It will drastically transform manufacturing and the entire management of global businesses. Not to mention the inevitable demand for a new breed of talents. Those who choose to ignore the new demands of this industrial revolution will find themselves not only left out of the new world competition, but also made irrelevant. Universities will have to respond strategically to meet the challenges of the new skills demanded by industry 4.0.

At UCSI University, gearing the curriculum to meet the demands of industry 4.0 is the focus of our newly refreshed strategic plan. For starters, the new programme of Industrial PhD in Engineering will focus on the many disciplines of engineering. With the launching of this programme, practicing engineers in areas related to resource efficiency, automation, big data and the internet of things now have the opportunity to enroll for a PhD study designed to directly involve their existing projects and assignments.

Why Industrial PhD in Engineering?

The programme will provide graduates with the ability to carry out advanced research in their various engineering disciplines related to industry 4.0. They will be equipped with the tools and skills to solve complex industrial problems. At the same time, the programme aims to facilitate the discovery of new knowledge which will contribute to the further improvement and enhancement of the industry's productivity. Better research collaboration between the academia and industry will be the outcome of the programme. The topics chosen for the programme will be crafted to closely address the research and technology needs of the industry. The programme will go a long way in sharpening the innovation capacity of the industry.

What are the Objectives of the Programme?

- ♦ To produce graduates who are competent in developing and executing the kind of industrial research that will transform synthesized knowledge in the relevant field for the benefit of the industry and community.
- ♦ To produce graduates who are capable of executing independent industrial research professionally and ethically, building the ability to lead / supervise industrial research projects which create win-win partnership between the academia and industry.
- ♦ To produce graduates who can contribute to the understanding of current industrial issues and technological advancements in engineering, through the effective reporting of research findings to peers at levels suitable for national/international publications, innovation discourse and patenting.

There is no doubt that the Industrial PhD in Engineering programme at UCSI University will transform the way Industrial PhD candidates are guided in the quest to produce a breed of PhD graduates which will meet the new demands of the merging industrial revolution, the Industry 4.0 which is already upon us.

Industrial PhD in Engineering

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(2) ENTRY REQUIREMENTS

Entry Qualifications

- ♦ Master's Degree (level 7 MQF) in Engineering or in related fields, or its equivalent recognized by the University.

English Proficiency Minimum Requirement

- ♦ International English Language Testing service (IELTS) score of 6.0,
- ♦ Test of English as Foreign Language (TOEFL) score of 550 Paper, or 213 (Computer Based testing, CBT) or 79-80 (Internet Based test, IBT), or
- ♦ Other English proficiency qualifications subject to the approval by the Programme Director.

(3) COURSE STRUCTURE

Taught Modules

- ♦ Research Methodology
- ♦ Global Management And Business Issues
- ♦ Entrepreneurship, Creativity & Innovation

Thesis

Remark

International Students are required to attend at least 3 long-weekend workshops and the oral defense in Malaysia. Students are also accessible to relevant industrial conferences (if any) to be conducted in international centres subject to confirmation by the Programme Director.

(4) PROGRAMME LEARNING OUTCOMES

At the end of the programme, graduates should be able to:

- ♦ Demonstrate an in-depth scholarship of their area of industrial research.
- ♦ Contribute to original industrial research to broaden the boundary of knowledge through thesis or dissertation.
- ♦ Make critical analysis, evaluation and synthesis of new ideas for industry.
- ♦ Plan and perform independent industrial research undertakings professionally, ethically and responsibly and to lead / supervise industrial research projects at different disciplines.
- ♦ Report industrial research findings to peers at levels suitable for international publications, innovation and patenting.
- ♦ Recognize the needs for continuing professional development in solving industrial problems.

REMARK:

- ♦ *This course is conducted in Malaysia. Students will study and be registered directly at the UCSI main campus.*
- ♦ *There is no academic activities such as lectures, tutorials or examinations delivered in Hong Kong.*
- ♦ *This course is NOT subject to the HK Non-local Higher & Professional Education Registration.*
- ♦ *It is a matter of discretion for individual employers to recognize any qualification to which this course may lead.*

Regional Programme Supporting Office

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