Doctor of Philosophy and Master of Engineering
The programme aims:

- The programme equips graduates with a repertoire of advanced research and development skills that are vital for solving technological problems and/or advancing downstream technology.

- The candidates are required to undertake an industrial research project that culminates in a thesis at the graduate level.

- The project exhibits the creation, interpretation, construction and/or exposition of knowledge which extends the forefront of a discipline through original research.

Overview

The industrial PhD and MEng programmes are intended for science, engineering and technology practitioners who (a) are interested in pursuing a career in applied research, (b) seek professional advancement, and (c) wish to enhance their understanding of a particular field or discipline within the domain of science and technology. In addition, the PhD programme is for researchers and practitioners who aspire to contribute in science and technology to the industry at the highest academic level and gain concomitant recognition of their effort and achievements.

Be at the Forefront of Industrial Research
**Graduate attributes:**

Upon successful completion the graduates will be able to perform the following:

- Conceive groundbreaking scientific solutions to address technology-related limitations in the industry.

- Design innovative methods for scientific investigation and interpretation that leads to the creation of theory.

- Integrate and implement advanced and complex scientific and engineering solutions in the industry.

- Organise and promote the advancement in science and technology in the community of practice.

**The programme includes learning experiences that provide graduates with the:**

Ability to plan, implement and manage large scale and highly innovative cutting edge research projects under time and resource constraints.

Ability to collate, organize and critique previous research works, in a systematic manner, for proposing research at the forefront of the discipline.

Ability to compare various theoretical and experimental methods, and to identify the most appropriate method(s) to carry out research.

Ability to carry out graduate level research based on the designed method(s), and to refine and/or calibrate the methods in the course of research.

Ability to analyze and interpret the research results, for generating universal theory with application in the industry.

Ability to present and publish research findings at international level.

Ability to solve new problems, and develop new techniques, ideas or approaches by continuing to undertake applied research and development at an advanced level.
Structure

Candidates are to complete graduate level courses and one thesis.

Students are to take the Qualifying Examination, pertaining to their research progress, within 12 to 18 months from admission.

Courses

- Research Methods in Science and Engineering (for PhD & MEng students)
- Data Analysis (for PhD & MEng students)
- Seminar Course I (for PhD & MEng students)
- Seminar Course II (for PhD & MEng students)
- Credit Recognition Course I (for PhD students only)
- Credit Recognition Course II (for PhD students only)
- PhD / MEng Thesis

Doctor of Philosophy (PhD) / Master of Engineering (MEng)

Figure 1: Study Progression Outline.
Admissions

Applicants should be Singapore citizens, permanent residents or residents in Singapore. In addition, you will need to meet these minimum requirements:

1. An undergraduate degree or an equivalent qualification from a recognised institution
2. Good communication skills (written and spoken English)
3. At least two years of work experience in related field
4. At least 21 years and above

In addition, you will need to meet these minimum requirements:
- At least an Honours degree or its equivalent.
- Currently doing research in science, engineering or related fields.
- Applicants without degrees from local universities may have to furnish GRE scores of at least 600 (verbal) and 650 (quantitative).

Shortlisted candidates may be required to undergo one or more interviews and/or take such written admission or other evaluation tests as may be prescribed by SIM University from time to time.

The offer of admission is dependent on the number of places available in individual programmes. The decision of the Admissions Committee of SIM University is final and binding. SIM University reserves the right to refuse admission and is not obliged to offer an explanation for the non-admission of unsuccessful candidates.

Tuition Fees

Our tuition fees are on par with those of other local universities. The amount of course fees you pay in each semester depends on the number of courses you take in that semester. Course fees cover all study materials, classes, tutor supervision, assignments and examinations. They do not include fees for optional textbooks and other additional items specified by SIM University from time to time.

Please visit unisim.edu.sg for current tuition fees.

For more information on:
Doctor of Philosophy, please visit unisim.edu.sg/PDENG
Master of Engineering, please visit unisim.edu.sg/MENG
Courses for PhD and Master by Research (Engineering) Programmes

Course Schedule

Courses are delivered in a seminar style workshop with a mix of lectures, lab work, case studies, and individual and group projects.

Courses:

- **Research Methods in Science and Engineering**
  Research Methods introduces the graduate students to a range of experimental and theoretical methods in science and engineering research at the graduate level.

- **Data Analysis**
  Data Analysis introduces the graduate students to a range of methods for analyzing and interpreting experimental and theoretical data at the graduate level and also for the practicing scientists and engineers.

- **In Seminar Course I**
  Students need to attend 6 sessions/topics of specialized study facilitated by full-time faculty from the School of Science and Technology. The topics are not fixed, but are dependent on the prevailing expertise of the School of Science and Technology and availability of industry speakers.

- **In Seminar Course II**
  Students need to attend 6 sessions/topics of specialized study facilitated by full-time faculty from the School of Science and Technology. The topics are not fixed, but are dependent on the prevailing expertise of the School of Science and Technology and availability of industry speakers.

- **Credit Recognition Course I**

- **Credit Recognition Course II**

- **PhD / MEng Project and Thesis**
  The project topics arise from technological problems or questions from industry in which scientific approach is required. Candidates work independently in delivering results of the project, with minimal but regular guidance from the industrial and academic supervisors.
Contact Us

Our Office Hours:
Mondays to Fridays – 8:30am to 7:30pm
Saturdays – 9:00am to 1:00pm

Admission and Programme Enquiries:
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