



Dieser Katalog wird Ihnen zur Verfügung gestellt vom Institut Ranke-Heinemann.

Wir betreuen Ihre Studienplatzbewerbung und fördern Sie finanziell!

Unser Förderprogramm

Warum IRH

www.ranke-heinemann.de



Zitat

„Aufgrund seiner langjährigen Erfahrung konnte das Institut Ranke-Heinemann mir zuverlässig, unkompliziert und sehr kompetent bei der Bewerbung eines Master of Laws an der University of Sydney behilflich sein.

Von meinem ersten Anruf bis hin zur letzten E-Mail hatte ich mich immer sehr gut betreut gefühlt. Die Bewerbung erforderte viel Organisationsaufwand und ich war froh, das Institut Ranke-Heinemann als Ansprechpartner und tatkräftige Unterstützung an meiner Seite zu wissen.“

Constanze Wedding

Master of Laws, University of Sydney

Unsere Beratungszentren

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MONASH University
Malaysia

(Formerly known as Monash University Sunway Campus Malaysia)

Engineering

School of Engineering

We teach our students to solve problems creatively and take an innovative approach to the development and application of engineering technology.

www.eng.monash.edu.my

At a glance

- Opportunity to study abroad at one of many partner universities worldwide
- Training in emerging areas such as renewable energy, nano-materials, biodegradable structures, solid state lighting, designs of low-carbon products and bio-mimic robots

Upon graduation, you will have career opportunities in biotechnology, building and construction, computer programming, food processing, manufacturing, mining, nanotechnology, power generation, robotics, sustainable technologies, telecommunications and transport.

Ranking and recognition

Monash University Malaysia has been given Self Accreditation Status by the Ministry of Education (MoE) through the Malaysian Qualifications Agency (MQA). Programs offered at the School of Engineering are accredited by Monash University and recognised by the following organisations:

- Tertiary Education Quality and Standards Agency (TEQSA), Australia
- Malaysian Qualifications Agency (MQA)
- Public Services Department of Malaysia (JPA)
- Engineering Accreditation Council Malaysia (EAC)
- Engineers Australia Accreditation Board

The School of Engineering was rated TIER 5 (Excellent) in D-SETARA Engineering by the Ministry of Education (MoE).

Monash Engineering is the HIGHEST ranked program offered in Malaysia. According to the QS World University Subject Rankings 2013, our position is as below:

- Chemical Engineering ranked 25th
- Civil and Structural Engineering ranked 26th
- Mechanical Engineering ranked 48th
- Electrical and Computer Systems Engineering ranked 51 – 100th

Monash is *ranked*
in the *top 100* of
world universities*

*Times Higher Education World University Rankings (2012–2013)

Undergraduate courses

Bachelor of Engineering

Duration: 4 years

Intakes: February, July and October

The Bachelor of Engineering offers you the chance to experience a range of engineering disciplines in your first year before deciding on a specialisation.

The common first year of the course also focuses on the role of the engineer in the future. In subsequent years, you can pursue studies in one of the following engineering disciplines: Chemical Engineering, Civil Engineering, Electrical and Computer Systems Engineering, Mechanical Engineering or Mechatronics Engineering.

Course structure

Every student must complete eight units in level one, whereby two of the eight units are compulsory. A student may choose the remaining six units, taking into account both the level of mathematics, chemistry and physics completed prior to admission to the course and the discipline of engineering into which the student hopes to proceed at the end of level one.

Areas of study

Level one (core units)

A total of eight units must be completed.

Core Units

- Computing for engineers
- Mathematics for engineering

Elective Units

Select four or five units from:

- Process systems analysis
- Engineering structures
- Electrical systems
- Engineering dynamics
- Engineering materials

Select one or two units from:

- Engineering profession
- Chemistry for engineering
- Physics for engineering

Total: 48 points

Bachelor of Engineering in the field of Chemical Engineering

Duration: 4 years

Intakes: February, July and October

Everyday items such as toothpaste, mobile phones, petrol, paper and instant coffee involve chemical engineering at some stage of their manufacture. In levels one and two, students gain a necessary background in the sciences and engineering fundamentals while levels three and four are designed around the core topics of mass transfer, heat transfer, separation processes, reaction engineering and many others.

Practical work forms an essential part of many units and management studies are introduced at later levels. Students are given the opportunity to integrate a period of industrial experience or time at an overseas university with their studies.

Requirements

Upon entry to Chemical Engineering, students can choose to specialise in one of two streams. Each stream involves 126 points of core Chemical Engineering units and 18 points of units at levels three and four (six points at level three and 12 points at level four) from one of the following two streams:

Sustainable processing

Sustainable processing is concerned with the principles of sustainability and lifecycle assessment to the development of environmentally clean technologies for product manufacturing and power generation. Here, students learn how to develop processes for generating energy and for manufacturing existing and new products from renewable raw material sources.

Biotechnology

The opportunities for the application of chemical engineering skills in biotechnology are widespread: from tissue engineering to biosensor development; from development of an artificial kidney to drug delivery; from fermentation processes to biofuels; and from drug development to biopolymers.

Level two

- Fluid mechanics
- Material and energy balances
- Heat and mass transfer
- Thermodynamics I
- Bio-nano engineering
- Chemistry
- Advanced engineering mathematics A
- Advanced engineering mathematics B

Total: 48 points

Level three (core units)

- Chemistry and chemical thermodynamics
- Process control
- Sustainable processing I
- Reaction engineering
- Separation processes
- Process design
- Transport phenomena and numerical methods
- Stream unit (Sustainable process engineering or Bioprocess technology)

Total: 48 points

Level four (core units)

- Engineers in society
- Particle technology
- Design project (12 Points)
- Chemical engineering project (12 Points)
- Two stream units (Sustainable processing II and Environmental impact assessment and management systems; or Biochemistry for engineers and Biochemical engineering)

Total: 48 points

Recommendation

It is recommended that students wishing to enter the Chemical Engineering (CHE) discipline complete Process systems analysis unit at level one.

Bachelor of Engineering in the field of Civil Engineering

Duration: 4 years

Intakes: February, July and October

Civil engineering encompasses four major fields of activity: structural engineering, water resources engineering, transport engineering and geotechnical engineering. Civil engineers are responsible for the basic needs and facilities (or infrastructure)

of modern society. They work for government bodies and for private employers as consulting engineers and engineering contractors specialising in areas such as structural design, water engineering, geotechnics and construction management.

The intention of level two is to develop 'sub-professional' skills, ie the ability to design commonplace engineering artefacts in the context of suitable theoretical treatment. At the same time, students gain some appreciation for the breadth of civil engineering. Theory is developed in parallel with the applications (problems). Theoretical insights are further developed at levels three and four, as more complex scenarios are considered.

Level three is designed to develop 'core professional' skills. It includes structural, water, geomechanics and management. The water and geomechanics groups share another unit in groundwater field as well.

Level four is seen as a period of specialisation. Each student must take both of the core units (6 points each) and a minimum of four Civil Engineering electives (6 points each). The remaining 12 points may be taken anywhere within the University (including the Civil Engineering department), as long as the units do not substantially duplicate a unit already studied. Some of the electives are multidisciplinary.

Level two

- Mechanics of solids
- Computing and water systems modelling
- Design of steel and timber structures
- Design of concrete and masonry structures
- Geomechanics 1
- Water systems
- Transport and traffic engineering
- Advanced engineering mathematics A

Total: 48 points

Level three

- Engineering investigation
- Project management for civil engineers
- Building structures and technology
- Bridge design and assessment
- Geomechanics 2

- Groundwater and environmental geoenvironmental engineering
 - Urban water and wastewater systems
 - Road engineering
- Total: 48 points

Level four

Core Units

- Project A
- Project B
- Civil engineering practice 4

Elective Units

Select five units from:

- Civil engineering construction
- Advanced structural analysis
- Advanced structural design
- Ground hazards and environmental geotechnics
- Foundation engineering
- Integrated urban water management
- Water resources management
- Transport planning
- Transport systems
- Environmental impact assessment and management systems
- Environmental risk assessment
- Engineering technology for biomedical imaging and sensing
- One 6 points of free elective*

*Free electives may be taken from within the school or from a discipline offered by another school. The free elective may also be taken from units offered as part of the Monash Passport program. All free electives must be approved by the Discipline Head.

Total: 48 points

Recommendation

It is recommended that students wishing to enter the Civil Engineering (CIV) discipline complete Engineering Structures unit at level one.

Note: The Civil Engineering program is provisionally accredited by Engineers Australia and EAC. Full accreditation can only be obtained when the first cohort of students are ready to graduate.

Bachelor of Engineering in the field of Electrical and Computer Systems Engineering

Duration: 4 years

Intakes: February, July and October

The first three levels of the course provide a broad foundation in Electrical and Computer Systems Engineering and in sciences such as physics, chemistry and mathematics. At levels three and four, students complete core units and a management unit and are able to choose from a large number of electives which build upon material studied at earlier levels. Electives comprise approximately 37 per cent of levels three and four.

The design and thesis projects at level three and four build self-reliance and planning capabilities in both individual and team-based environments. Projects are often related closely to the department's exceptionally strong research and collaborative industry programs within its research centres.

Level two

- Signal processing
- Electromagnetism
- Circuits and control
- Telecommunications
- Analogue electronics
- Computer organisation and programming
- Digital systems
- Advanced engineering mathematics B

Total: 48 points

Level three

- Wireless and guided EM, or Electrical energy systems
- Electronic systems and control or Computer systems
- Engineering design
- Systems engineering and reliability analysis
- Optimisation estimation and numerical methods
- 18 points of electives from the Electrical and Computer Systems Engineering (ECSE) elective list

Total: 48 points

Level four

(Core Units)

- Project A
- Project B
- Professional practice

Select the two units not already taken from:

- Wireless and guided EM, or Electrical energy systems
- Electronic systems and control or Computer systems
- 18 points of electives from the ECSE elective list below

Total: 48 points

ECSE Elective Units

The list of elective choices below will be taught in any year, and many will be offered only in alternate years. One of the elective units may, with the written permission of the Discipline Head, be a unit chosen from elsewhere in the University, provided the unit does not substantially duplicate material already studied.

- Wireless communications
- Advanced control
- Industrial instrumentation and measurement technologies
- Communications theory
- Optical communications
- Telecommunications protocols
- Electrical energy – generation and supply
- Large scale digital design
- Electronic test technology
- Real time embedded systems
- Intelligent robotics

Recommendation

It is recommended that students wishing to enter the Electrical and Computer Systems Engineering (ECSE) discipline complete Electrical systems and Engineering dynamics units.

Bachelor of Engineering in the field of Mechanical Engineering

Duration: 4 years

Intakes: February, July and October

When specialisation in the field of mechanical engineering begins at level two of the program, it focuses on engineering practice and the engineering sciences. At level three, engineering science and practice studies are extended to a professional level and students are encouraged to learn independently by utilising learning resources available to them.

At level four, students undertake an independent full-year project in an area of personal interest. The results of this project are presented and examined by thesis. In addition, students complete one professional practice and one design core unit plus three engineering electives offering scope for specialisation. An inter-faculty business unit completes the final level.

Level two

- Advanced engineering mathematics A
- Dynamics I
- Engineering design I
- Mechanics of materials
- Fluid mechanics I
- Thermodynamics
- Engineering computational analysis
- Electromechanics

Total: 48 points

Level three

- Fluid mechanics II
- Engineering design II
- Dynamics II
- Thermodynamics and heat transfer
- Solid mechanics
- Material selection for engineering design
- Systems and control
- Experimental project

Total: 48 points

Level four

- Project I
- Project II
- Professional practice
- Engineering design III
- 18 points of level found mechanical engineering electives

Plus one 6-point inter-faculty (Business) elective selected from the following:

- Business law
- Managing people and organisations
- Organisational behaviours
- Human resource management
- Marketing theory and practice
- Macro Economics

Total: 48 points

Recommendation

It is recommended that students wishing to enter the Mechanical Engineering (MEC) discipline complete Engineering structures, Electrical systems and Engineering dynamics units at level one.

Note: Approval must be sought from the Discipline Head in Mechanical Engineering to take any unit not listed above.

Bachelor of Engineering in the field of Mechatronics Engineering

Duration: 4 years

Intakes: February, July and October

At level two, units provide fundamental knowledge across the wide range of disciplines that form the basis of Mechatronics Engineering. Thermodynamics, fluid mechanics, electronics, mechanics, programming and digital electronics are some of the topics covered at level two. At level three, further knowledge is built on these fundamentals of Mechatronics Engineering to a professional level. These specialised areas include Sensors, Control, manufacturing and electrical energy systems.

At level four, students undertake units that draw together a wide range of fundamental knowledge in a mechatronics context such as robotics. This level allows for specialisation in wider areas of mechatronics through the selection of three elective units. Students have the opportunity to study a unit from another faculty as one of their electives and to undertake a substantial independent investigation in a chosen area. There is a strong emphasis on project work throughout the Mechatronics Engineering course. As with

project units at the second, third and fourth level, many other units contain a strong project/design element.

Level two

- Advanced engineering mathematics B
- Engineering design I
- Mechatronics project I
- Thermo-fluids and power systems
- Dynamics I
- Digital systems
- Computer organisation and programming
- Analogue electronics

Total: 48 points

Level three

- Mechatronics project II
- Dynamical systems
- Computer systems
- Sensors and artificial perception
- Electrical energy systems
- Modelling and control
- Mechatronics and manufacturing
- 6 points of Mechatronics elective

Total: 48 points

Level four

- Mechatronics final year project I
 - Mechatronics final year project II
 - Professional practice
 - Robotics
- Elective Units**
- 24 points of elective units (approved by the discipline head) from within the faculty (6 of the 24 points may be taken as an inter-faculty elective)

Total: 48 points

Recommendation

It is recommended that students wishing to enter the Mechatronics Engineering (TRC) discipline complete Engineering structures, Electrical systems, Engineering dynamics and Engineering materials units at level one.

Entry requirements

Prerequisite Mathematics and at least one of Chemistry or Physics (Year 12 equivalent)

Career opportunities for all Engineering graduates

Graduates can work in fields such as:

- Biotechnology
- Building and construction
- Computer programming
- Food processing
- Industrial electronics
- Manufacturing
- Mining
- Nanotechnology
- Power generation
- Robotics
- Sustainable technologies
- Telecommunications
- Transport

Professional attachment

Engineering students at the Malaysia campus must undergo their industrial training in an industry-based environment after their third year of studies as required by EAC, Board of Engineers Malaysia. The duration of the training is 12 weeks and students must submit a written report detailing the work experience. Companies like British Telecommunications plc, Carrier (M) Sdn Bhd, ExxonMobil Exploration and Production Malaysia Inc., F&N Coca-Cola (Malaysia) Sdn Bhd, Freescale Semiconductor Malaysia Sdn Bhd, Goodyear Malaysia Berhad, Hicom Automotive Manufacturer (M) Sdn Bhd, Malaysia Airlines, IBM (M) Sdn Bhd and Shell Refining Company (Federation of Malaya) Berhad have all provided internship opportunities for our Engineering students. A list of internship providers is available on the noticeboard for students' reference. A recommendation letter from the School of Engineering is also provided upon request by the student.

In preparation of the industrial training, students are strongly encouraged to:

- Obtain a copy of Industrial Training Guidelines from the Course Management Office, School of Engineering (Building 5, Level 4, Monash University Malaysia)
- Attend the Industrial Training Briefing, specially conducted for engineering students in April/May each year.
- Consult the respective Industrial Training Advisors in their individual discipline should there be any queries.

General Studies/Mata Pelajaran Pengajian Umum (Compulsory subjects)

The Malaysian Ministry of Education has officially announced the offering of General Studies (GS)/Mata Pelajaran Pengajian Umum (MPU) to replace the Malaysian National Subjects (Compulsory subjects) for all private higher education institutions effective 1 September 2013. All new students must undertake GS, and for Malaysian citizens, they must pass GS as a prerequisite for the award of a certificate, diploma, advanced diploma or 1st degree. (Circular No 2, Year 2013, Ref: JPT/GS1000-606 Jld.1 (25) and JPT/GS1000-606 Jld. 1 (30))

The objective of General Studies (GS) is to provide a holistic education across the disciplines for all tertiary students (Malaysian and International) and opportunities for students to engage in diverse life-long learning skills and acquiring of knowledge. The GS comprises four broad categories, namely:

- U1: The appreciation of philosophy, values and history;
- U2: Mastery of soft skills;
- U3: Broadening of knowledge in Malaysia; and
- U4: Practical management of community projects.

Student Experience Programs

The School fosters active learning at different levels of studies to strengthen critical thinking and creativity skills in its students. Students have access to different non-compulsory experiential learning programs that are suited to their needs.

Buddy-Buddee

Buddy-Buddee is a voluntary Peer Mentoring program for engineering students. A Buddy is a current engineering student mentor and a Buddee is a new first year student mentee. A Buddy provides support, guidance and advice to Buddees to help them adjust to academic and social life. For example, a Buddy can assist Buddees with administrative issues, study strategies, selection of elective units, and selection of engineering discipline. A Buddy can also provide social support such as networking and friendship. Participation in this program helps smoothen and accelerate the transition from pre-university to first-year university life.

Undergraduate Research Opportunities Program (UROP)

UROP provides undergraduate engineering students an early opportunity to experience a genuine research environment, working either with a supervisor and/or a research group. Students will acquire knowledge and numerous skills to confidently progress to more independent research tasks and prepare them to undertake future HDR (Higher Degree by Research) studies.

Engineering Leadership Program (ELP)

ELP is a challenging and engaging one-year program for selected high-performing undergraduate engineering students. The program stimulates and inspires these future leaders, taking them out of their comfort zone whilst providing a supportive learning environment. Participants develop leadership and employability skills which will serve them well beyond the transition from student to engineering professional.

Mentor-mentee

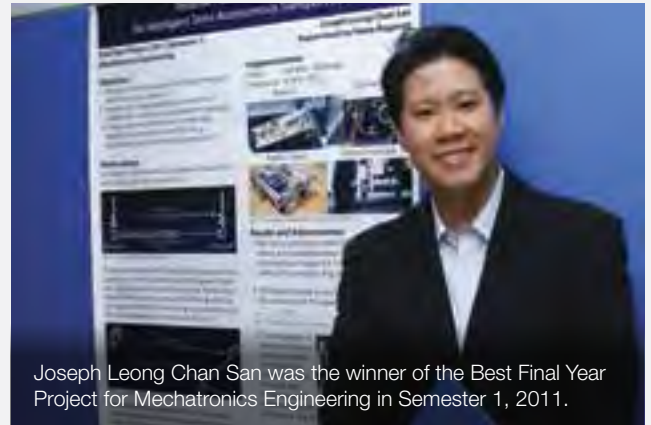
Mentor-mentee matches an academic with a student requiring expert assistance in coping with the rigour of engineering study.

Expert speakers

Speakers from industry and academia address students on topical issues which complement academic studies.



A student checking out the latest technology and trends in aviation and aerospace engineering at the 2011 LIMA exhibition.



Joseph Leong Chan San was the winner of the Best Final Year Project for Mechatronics Engineering in Semester 1, 2011.



Monash University emerged as the second runner up in the Freescale Cup 2012 Intelligent Car Racing competition.



Nicholas Choo Loke Sinn

Sir John Monash Medal for Outstanding Achievement recipient

Bachelor of Engineering in the field of Mechanical Engineering, 2013

“I have no secret to success. I just tried my best. But the one thing I learned was to not be embarrassed to ask questions. Being involved in university life, especially in the extra co-curricular activities, was an amazing experience.”

A portrait of Joel Neoh Eu-Jin, a young man with dark hair, wearing a black t-shirt with the Groupon logo and a dark cardigan. He is sitting in front of a light-colored wooden wall. The Groupon logo on his t-shirt consists of the word "Groupon" in white, bold, sans-serif font, enclosed in a white rectangular border with slightly irregular edges.

Joel Neoh Eu-Jin

Chief Executive Officer
Groupon Malaysia and Groupon Taiwan
Reality TV show The Firm winner
Bachelor of Engineering in the field
of Mechanical Engineering, 2005

“The education framework in Monash University encourages a lot of independence and being hands-on in completing assignments. These values were also encouraged by my parents and have helped in my career to be more hands on in managing the start-ups that I work on, including Groupon Malaysia and Taiwan.”

Postgraduate courses

Master of Engineering Science (Research)

Duration: 2 years (Full-time)
4 years (Part-time)

Intakes: Throughout the year. Subject to availability of supervision.

This degree is intended to provide students with basic training in the methodology of research, and to allow them to gain an in-depth insight into an important topic of current engineering interest. In this course, students undertake a research project in one of the areas of specialisation listed below. The objective of the course is for students to demonstrate a thorough understanding of relevant research techniques in their field through a review of the relevant literature, and then to demonstrate their ability, under supervision, to apply relevant research techniques to their chosen field of study.

For successful completion, candidates are required to submit a thesis on their work, which the examiners should find to have demonstrated the candidate's mastery in the research area.

Areas of research

- Manufacturing and industrial automation
- Swarm, mobile and rehabilitation robotics
- Intelligent robotics
- Bio-inspired robotic devices and bio-mechanics
- Embedded systems and virtual instrumentation
- Fault detection and automatic control
- Optomechanics
- Unmanned autonomous systems
- Wireless sensor networks
- Fibre optic amplifiers
- Optical networks
- Semiconductors
- Photonics
- Visible light communication
- Solid state lighting
- Microwave and RF design
- Organic electronics
- Bioprocess technology
- Advanced materials
- Membrane technology
- Power generation from coal/biomass
- Environmental management
- Green technology
- Optimised design for sustainable systems
- Sustainable processing
- Water/wastewater treatment processes
- Integrated urban water management
- Nanotechnology
- Particle engineering

Candidature

Full-time and Part-time Candidature

Candidature is either on a full-time or part-time basis as determined by a committee of the faculty board. The duration of the full-time candidature is usually 24 months, although regulations allow for a minimum completion time of 12 months in special circumstances. Every two months of part-time study counts as one month of full-time study for the purpose of calculation of duration of candidature. There are no levels of candidature other than part-time or fulltime. Part-time candidature is permitted under the following guidelines:

- (a) The supervisor shall be a full-time member of the academic staff of the University. An associate supervisor may be an appropriately qualified member of an external organisation. If the associate supervisor is from an external organisation, frequent communication with the supervisor should be maintained.
- (b) The topic of the thesis shall be decided by the candidate in consultation with the supervisor.
- (c) A candidate may undertake part-time studies subject to the following constraints:
 - in order to undertake part-time candidature, a candidate must be able to devote the equivalent of a minimum of two days per week to the pursuit of the research project.
 - where the postgraduate's research work involves the systematic use of University facilities, the faculty may require that these two days be weekdays.
 - where the candidate is engaged in full-time employment, the employer will be required to certify and be satisfied that the candidate is able to spend the equivalent of two days a week in pursuit of the research project.

- d) The candidate must discuss progress with the supervisor in person at least once each calendar month.
- e) The candidate must attend the University frequently and on a regular basis; one day per week on average is considered the minimum necessary.
- f) The candidate must attend courses, seminars, workshops etc that are deemed necessary.

Course objectives

Through the course, students will be able to demonstrate their ability, under supervision, to apply relevant research techniques to their chosen field of study as well as:

- Identify and define a research question
- Identify the appropriate research methods to address the research question
- Demonstrate mastery of their chosen research methodology
- Communicate their research findings in a format appropriate to their academic discipline
- Write up their research into a high quality master thesis

Career opportunities

Advance your career in:

- Biotechnology
- Computer programming
- Industrial electronics
- Manufacturing
- Nanotechnology
- Power generation
- Robotics
- Sustainable technologies
- Telecommunications

Doctor of Philosophy (PhD)

Duration: 4 years (Full-time)
8 years (Part-time)

Intakes: Throughout the year. Subject to availability of supervision.

Candidature in a Doctor of Philosophy involves the independent investigation of a research problem that has been formulated by the candidate in one of the areas of research listed below. It is expected that the research undertaken will make a significant contribution to the discipline in which the candidate is enrolled.

Successful completion of the program will signify that the holder has completed a course of postgraduate training in research under proper academic supervision and has submitted a thesis that the examiners have declared to be a significant contribution to knowledge and which demonstrates the candidate's capacity to carry out independent research.

Areas of research

- Manufacturing and industrial automation
- Swarm, mobile and rehabilitation robotics
- Intelligent robotics
- Bio-inspired robotic devices and bio-mechanics
- Embedded systems and virtual instrumentation
- Fault detection and automatic control
- Optomechanics
- Unmanned autonomous systems
- Wireless sensor networks
- Fibre optic amplifiers
- Optical networks
- Semiconductors
- Photonics
- Visible light communication
- Solid state lighting
- Microwave and RF design
- Organic electronics
- Bioprocess technology
- Advanced materials
- Membrane technology
- Power generation from coal/biomass
- Environmental management
- Green technology
- Optimised design for sustainable systems
- Sustainable processing
- Water/wastewater treatment processes
- Integrated urban water management
- Nanotechnology
- Particle engineering

Objectives

The course is for students to demonstrate a thorough understanding of relevant research techniques in their field through a review of the relevant literature. They will also demonstrate their ability, under supervision, to apply relevant research techniques to their chosen field of study. Through their research they must make an original contribution to their field of study.

Students will also be able to:

- Identify and define a research question
- Identify the appropriate research methods to address the research question
- Demonstrate mastery of their chosen research methodology
- Communicate their research findings in a format appropriate to their academic discipline
- Write and produce their research into a high quality document containing all the required components of a PhD thesis.

Candidature

Full-time and Part-time Candidature

The guidelines for part-time PhD candidature are the same as the 18 points listed in "full-time and part-time candidature" for the Master of Engineering Science. Part-time PhD candidates however must also attend the department, faculty, centre, school or unit for not less than six of the first 24 months of candidature.

Regular interactive communication between candidate and supervisor should take place at least once a month via telephone, video conference or other interactive communication.

Career opportunities

Advance your career in:

- Biotechnology
- Computer programming
- Industrial electronics
- Manufacturing
- Nanotechnology
- Power generation
- Robotics
- Sustainable technologies
- Telecommunications

Higher Degree by Research

If you are interested in a research degree, do contact the research office for further details.

School Research Office,
Research and Development Manager

Telephone: +6 03 5514 6224

Lee Su Mei, Research Executive

Telephone: +60 3 5514 4938

Email: lee.su.mei@monash.edu

English language requirements

All applicants must meet the University's minimum English language requirements. When an applicant has achieved more than one of the English language requirements over a period of time, only the most recent demonstration of English proficiency will be considered. You can meet these requirements in one of the following ways:

- You have achieved a satisfactory level of performance in an English subject at Year 12 or an equivalent level.
- You have studied at an institution where English is the language of instruction and assessment for the entire institution and have satisfactorily completed the equivalent of one full-time year of either:
 - A university undergraduate award program, or
 - A TAFE or VET diploma program, or
 - A program that has been assessed as being taught at an equivalent level to Monash University undergraduate study

Documentary evidence in the form of a letter or transcript is required from the institution at which the study was undertaken.

- You have completed British GCE O Level and obtained a grade 'C' or better in English.
- You have completed British GCE A Level and obtained a grade 'C' or better in General Paper (A/S Level).
- You have completed the University of Cambridge GCE O Level 1119 English language with a grade 'C' or better (a validity period of three years from the date of exam taken applies), and have subsequently completed A Level.
- You have undertaken an English language proficiency test within 24 months prior to your study commencement date and have achieved the following results:
 - All of your secondary schooling was in English and you have successfully completed at least two university-level subjects in an institution where English is the language of instruction and assessment. The university subjects must be "English-rich" and judged by an appropriate test and proficiency in the English language by the managing Monash faculty of the course applied for.

- IELTS (International English Language Testing System – Academic) minimum test score of 6.5 overall with at least 6.0 in each individual band.
- TOEFL (American Test of English as a Foreign Language) minimum test score of 550 with a Test of Written English (TWE) score of at least 4.5, or a minimum overall test score of 79 in the internet-based TOEFL with minimum scores of 21 in writing, 18 in speaking, 13 in reading and 12 in listening.
- You have successfully completed the Monash English Bridging (MEB), or equivalent programs, at the appropriate level.
- Some courses have higher English language requirements. For more information refer to the School-specific undergraduate entry requirements pages.

For more information on English language requirements, visit:

www.adm.monash.edu/admissions/undergrad/entry-requirements/english-requirements.html or www.monash.edu.my (For undergraduate students)

www.adm.monash.edu/admissions/postgrad/pg-english-requirements.html (For postgraduate students)

Monash English Bridging

The Malaysia campus also offers the Monash English Bridging (MEB) to those who need assistance in English. The Course focuses on academic skills preparation for the reading, writing, speaking and listening, note-taking and research that students will be undertaking within their Monash courses.

For more information, visit: www.monash.edu.my/ELBP

Liew Wei Chun

Exchange student to the University of Leeds, UK
Bachelor of Engineering in the field of Chemical Engineering

"I have learned a lot from the one-year exchange program, which allowed me to meet students from other parts of the world. I have also been given the opportunities to participate in research projects conducted in the University of Leeds."



Shazwani bte Mohd Salleh

Systems Engineer, DIGI
Telecommunication

Bachelor of Engineering in the field
of Electrical and Computer Systems
Engineering, 2008

“Being able to handle work stress is very important to survive Monash. Studying in groups can really help and make learning fun. Just by mixing with friends from all over the world and from other courses have also sharpened my communication skills.”





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September 2013

KPT/JPT/DFT/US/B04 Co. No. 458601-U (Date of establishment: 20 March 2000)
F2-K046, F2-K007, N/520/6/0039, R/523/6/0081, F2-K015, F2-K016,
R/520/7/0042, F2-K010, F2-K013