

 **Find out more:**  
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UNIVERSITY OF  
**Southampton**  
MALAYSIA

# ENGINEER A NEW WORLD

**MALAYSIA CAMPUS**  
FOUNDATION YEAR AND  
UNDERGRADUATE COURSES 2019

PART OF THE  
**RUSSELL  
GROUP**

Your university experience is about more than your course, it's about the next chapter of your life – your new world. At Southampton we want to further your passion to learn and encourage your desire to explore, in a community that embodies those values.

An institution ranked among the world's top 100 universities\*\* and a founding member of the Russell Group of research-intensive UK universities, you can expect to be inspired and challenged.

Here, you will be supported in your studies and together we can prepare you to make your mark on the world.

We have established a branch campus within the EduCity development in Iskandar Puteri, Johor to enable more students to experience our world-class education. Students at our Malaysia Campus are offered the same course content and teaching quality as students in the UK and often enjoy a high staff to student ratio.

\*\*QS World University Rankings, 2019

# OPEN DAYS



**Book your place at:**

[www.southampton.ac.uk/my/visitus](http://www.southampton.ac.uk/my/visitus)

Other opportunities to meet staff from the University are available at [www.southampton.ac.uk/my/events](http://www.southampton.ac.uk/my/events)

# CHOOSE SOUTHAMPTON

## No.4

for Aeronautics and  
Astronautics  
The Complete University  
Guide, 2019

## No.2

for Electrical and  
Electronic Engineering  
The Guardian University  
Guide, 2019

## No.6

for Mechanical  
Engineering  
The Guardian University  
Guide, 2019

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# A GLOBAL UNIVERSITY



Part of the Worldwide Universities Network, a collaboration of knowledge from around the world

Experience a global engineering education in Malaysia and the UK

We have alumni networks in many countries, including Malaysia, Singapore and China, that can help you with career planning, employability and mentoring

## STUDYING ABROAD:

we have over 400 links with 233 partners in 54 countries around the world

**Our Malaysia Campus in the EduCity development in Iskandar Puteri, Johor, enables students to experience the University of Southampton's world-class education at around 60 per cent\* of the cost of the same degree in the UK. Obtain a unique 'Southampton' education in Malaysia: two years of study in Malaysia followed by two years of study in the UK.**

We have educated students from Malaysia for over 50 years and enjoy good links with South-East Asia which span many disciplines, levels of education and research. Our partnerships in the region include the University of Malaya, the Universiti Teknologi Malaysia, Universiti Teknologi Petronas, the National University of Singapore and Nanyang Technological University. Join us to be part of a forward-thinking institution that upholds innovation and exploration at the centre of its education; join us to forge a successful global future.

- Our alumni community is a rich, diverse network of former students that covers the globe
- Our world-class academics are at the cutting-edge of their disciplines, bringing a positive impact to every continent
- Our business, government and non-government organisation partners span the globe
- We are part of the Worldwide Universities Network, a collaboration of knowledge from around the world

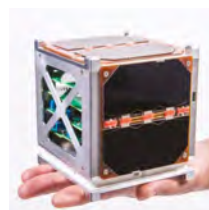
## 1 Global Competition

Engineering students are designing and building the Southampton Formula Student car, ready to race against other universities from around the world.



## 2 Building a Satellite

Our students are working on a project to design and build a CubeSat. They are working with the European Space Agency, and aim to place it into orbit via the International Space Station.



## 3 Racing to International Success

An autonomous racing car created by Electrical and Electronic Engineering students achieved a top ten position in an intercontinental intelligent racing competition, held in Munich, Germany.



## 4 Scholarship Awards

Pang Aaron Ken Soon, MEng Electrical and Electronic engineering graduate, was a three times recipient of the prestigious Lloyd's Register Foundation scholarship. Aaron is now working at Intel in Penang.



## 5 Spacecraft Propulsion

Research students in Electronic Engineering are helping develop high powered hollow cathodes for spacecraft propulsion in collaboration with the Japanese Aerospace Exploration Agency.



@Southampton\_MY

Follow us for the latest news, research and events at the University

\* This figure is based on international tuition fees, includes the 20% Transition Bursary and uses the exchange rate £1 = MYR 5.28 as of August 2018. The cost of studying in the UK (4 years in the UK) is £20,970 per annum.

# WHAT HAS YOUR NEW WORLD BECOME?

## Leading the field in aero engine innovation

### Jeremy Fong

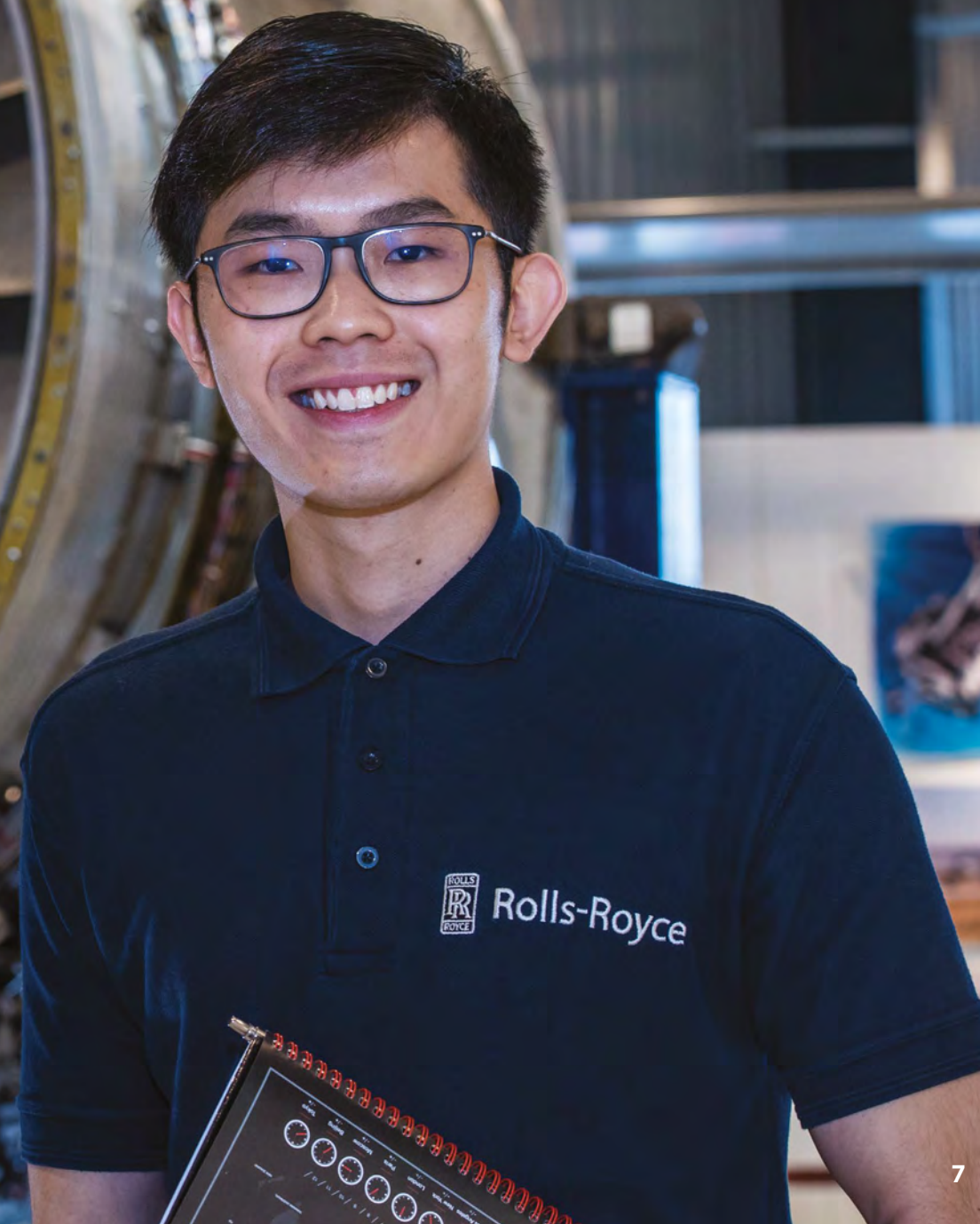
MEng Mechanical Engineering/Aerospace, 2016  
Graduate Engineer, Rolls-Royce, UK

"I secured a place on a graduate scheme with Rolls-Royce UK, where I have gained valuable experience of working in the civil aerospace industry and am able to apply the knowledge and skills I gained at university into real-world situations.

"One thing I learned from university is the importance of communication. At my company, I get to work with people from different disciplines – manufacturing, design and materials. Every day is different so I always get to learn new things, which is really great.

"The University of Southampton played an important role with my application - I found out about Rolls-Royce through the Engineering Fair held by the University's Career and Employability Services. I also had my CV examined by a practitioner at the University's drop-in service and attended a mock assessment centre to help me in my preparation for Rolls-Royce's assessment centre.

"My time in the UK has been one of the best experiences of my life. I have been able to experience different cultures and expand my world view – something which can't be taught in books."



Find out more:  
[www.southampton.ac.uk/jeremy](http://www.southampton.ac.uk/jeremy)

# WORLD-CLASS FACILITIES

**At Southampton, you will have the opportunity to develop original thinking, push boundaries and create solutions to global challenges using facilities that are as advanced as our thinking.**

- Ever since we pioneered research that laid the foundations for the creation of the Web, we have been developing understanding of computer sciences. Our Web Science Institute is where students and researchers come to investigate how the Web will continue to change the world.
- We are pushing the boundaries of performance sport. Using a combination of our large-scale facilities, including wind tunnels and towing tanks, our engineering research is helping elite athletes gain that vital competitive advantage.
- We have invested £8m in our undergraduate teaching and project laboratories for electrical engineering, together with extensive computing facilities. Our cleanroom is the largest multidisciplinary cleanroom of its type in the UK, offering world-class facilities to our undergraduate students.
- The Engineering, Design and Manufacturing Centre (EDMC) is a professional engineering workshop, used by students and researchers. Its extensive facilities include 3D printers, CNC equipment, CAD/CAM software and a training workshop.

Undergraduate electrical and electronic engineering students may use our £110m state-of-the-art interdisciplinary cleanroom (pictured) as part of their fourth year modules.



**1MV/50kJ**

lightning and switching impulse generator in our Tony Davies High Voltage Laboratory



**RJ Mitchell Wind Tunnel**

At the forefront of aerodynamics research for more than 35 years



**Find out more:**

[www.southampton.ac.uk/sb/research](http://www.southampton.ac.uk/sb/research)

# OUR PEOPLE

**Make Southampton the start of your new world; our community is full of passionate people with the drive to change the world through their research and collaborations with global partners. We can help you develop the skills you need for your future.**

- Become part of a research-intensive community where our discoveries are having global impact
- Our world-leading academics will inspire and challenge you throughout your studies
- Our graduate mentors can help you develop your skills
- Feel welcome in your new home among a diverse mix of people and cultures

## Professor Rebecca Taylor Pro Vice Chancellor and CEO (Malaysia)

Rebecca's research interests lie in the field of International Economics and Developments in Economics Education. She has designed and directed a number of Higher Education Funding Council for England (HEFCE) funded projects, focussed on innovative approaches to the teaching and learning of mathematics and statistics in Economics. Rebecca is on the Board of Companions of the Chartered Management Institute and is the Vice President (Academic) of the European Foundation for Management Development (EFMD).



## Professor Neil Stephen Head of Academic Affairs

With the wealth of articles published on acoustics and sound, Google Scholar selected Neil's paper as one of the most influential in academia. Titled Energy Harvesting from Ambient Vibration, his paper is one of Google Scholar's Classic Papers: Articles that Have Stood the Test of Time. Alongside his successful research, Neil has led an interesting and varied career as an academic, technical consultant and forensic engineer. His insatiable curiosity with new things keeps him motivated. "When you're motivated, it's very hard to fail. Some dreams may take longer and are harder than others to achieve but that's what makes the end goal so worth it," he said.



## Dr Mihai Rotaru Associate Professor of ECS and EEE Programme Leader

Mihai is the Electrical and Electronic Engineering (EEE) lead, managing all operational aspects of the programme at our Malaysia Campus. An electrical engineer, Mihai's main research interest is in applied electromagnetism. He is especially interested in modelling and simulation of devices and structures that interact with electromagnetic fields. Particularly efficient and fast simulation of electromagnetic metamaterials and their possible applications in anything from bio sensing to improving the wireless power transfer efficiency for power application. He also has a keen interest in analysing and solving signal and power integrity problems in complex electronic systems.



## Dr Geoff Merrett Associate Professor in Cyber Physical Systems

Geoff's interest in energy harvesting and sensor networks has led to research projects totalling over £20m, allowing mobile and embedded computing systems to run off their batteries for longer, potentially even forever. He is leading the development of a new interdisciplinary research centre, focused on pervasive systems and the Internet of Things. Keen to inspire the next generation of engineers, he also lectures on digital circuits and microprocessors and is the director of our Summer Taster Courses.



## Dr Ch'ng Shiau Ying Lecturer in Materials

With a passion for material science, Shiau Ying has been actively involved in numerous research projects within industry and academia. Her PhD research zoomed in on rubber degradation in partnership with Ecole Centrale de Nantes in France. After graduate school, she teamed up with Panasonic and Continental Tyre for research focusing mainly on simulation of rubber parts.

Currently, Shiau Ying teaches Materials on the Mechanical Engineering programme. She takes her teaching very seriously, with the aim of becoming someone who can make an impact on a student's life.



# OUR PEOPLE (CONT.)



## Professor John Atkinson

Professor of Engineering Science

John's research interests include thick film technology, electronic instrumentation and sensors. In particular, he has been working in the field of thick film (screen printed) sensor arrays for use in environmental monitoring for many years. John is also very active in the teaching of undergraduate and masters students on several courses including Electronics for Mechanical Engineers and Acousticians, Advanced Sensors and Signal Processing, and supervision of individual and group projects.



## Professor Dame Wendy Hall

Professor of Computer Science

Professor and graduate from Southampton, Wendy was one of the first scientists to carry out serious research in multimedia, hypermedia and she has been at its forefront ever since. The influence of her work has been significant in many areas including digital libraries, the development of the Semantic Web, and the research discipline of Web Science. She is the UK's only Regius Professor in Computer Science and led a major review of Artificial Intelligence for the UK Government.



## Shahlilawati Wahid

English Language Lecturer

For Shahlilawati, teaching English is special as it gives students a voice. Currently teaching study skills and English language to engineering foundation year students, she believes that words are powerful – they influence people, initiate change in the world and prepare them for the challenges brought by life and work. She started her teaching career with a few public universities in Malaysia and then later on in 2015, she received her Master in Education (Management and Administration) from Universiti Teknologi Malaysia.



## Dr Jo-Han Ng

Assistant Professor and Director, Engineering Foundation Year Programme

Jo-Han is a trained mechanical engineer. His main research interests cover the area of renewable energy, particularly biodiesel fuels, from an experimental, theoretical and computational fluid dynamics point-of-view. He hopes that his research efforts will be able to help reverse the deteriorating environmental conditions and also alleviate the fossil fuel depletion issue. From 2009-2011, he was awarded scholarships by the Swiss-based 'World Federation of Scientists' to conduct research on the planetary emergencies of "Energy" (Renewable Energy).



## Professor Sir David Payne

Director of the Optoelectronics Research Centre

Professor Sir David Payne is a world-class pioneer of photonics technology and Director of the Optoelectronics Research Centre (ORC) – a leading institute for photonics research for which the University was awarded a Queen's Anniversary Prize. David's work has had a huge impact on the technology that underpins the internet as well as many solutions in medicine, biosciences sensing, security and manufacturing. The optical fibres invented and made in Southampton are on the Moon, Mars and the International Space Station.

# YOUR STUDENT LIFE IN MALAYSIA

Years one and two (and Foundation Year) are spent at our Malaysia Campus, located at the world-class education hub of EduCity in Iskandar Puteri, Johor.

## Campus

Our Malaysia Campus is set within EduCity - one of the most important developments in Iskandar Malaysia. It is a pioneering concept of best-in-class education partners, including globally recognised universities such as Southampton, Newcastle and Reading, all sharing international-standard sporting and recreational facilities.

On campus, you will stay in modern living accommodation, which is equipped with a cafeteria, launderette,



**uni\_southampton\_malaysia**  
Follow us on Instagram to see more pictures of our campuses

prayer room, indoor games room, outdoor badminton, basketball court and a picturesque roof terrace with views of the surrounding area.

## Surrounding area

In the heart of Malaysia's economic zone, EduCity is 8km from the Second Crossing Bridge to Singapore. It is easily accessible via the Coastal Highway that directly links Medini with Johor Bahru, and the Malaysia-Singapore Second-Link Expressway.

Singapore's regional aviation hub, Changi International Airport, is a 60-minute drive away and we are just 30 minutes from Senai International Airport.

## Student life in Malaysia

We offer a wide range of facilities and services so that you can make the most out of your student life.

- Study in the study space and computing suites
- Socialise in cafés and restaurants in the local area
- Enjoy a film, shopping or eating out at the wide range of shopping malls in close proximity to EduCity
- Relax on the beach at the nearby islands of Pulau Rawa, Pulau Sibul and Pulau Aur
- Visit local attractions including Singapore, which is only approximately a 40-minute drive away

## University of Southampton Student Association (USSA)

Supported by the Students' Union in the UK, the Student Association is designed to ensure that all students at our Malaysia Campus have their voice heard at every level and that your university experience is as fun as possible.

Run by students for students, USSA collects feedback and works with the Students' Union in the UK and the University to improve the student experience on campus. To ensure fair and accurate representation, USSA holds elections each year to choose the students that will become the representatives.

The Association oversees the sports clubs and societies, ensuring that they are run properly and supporting them with the funding provided by the Union, to buy equipment for activities and events.

USSA also organises events on campus to give you the opportunity to meet other students and engage with other Universities at the EduCity development.

## Sport

- Students at our Malaysia Campus have access to the exceptional physical recreation and sports facilities at EduCity, which includes a 6,000 capacity sports stadium with a football/rugby pitch, and a 400 metre athletic track that complies with the Association of Athletics Federation standards. There is also an aquatic centre with an Olympic-size swimming pool, which meets International Swimming Federation standards for water polo and synchronised swimming.
- Join in and play a sport at the stadium which has pitches for ball sports and field events, or in the indoor arena with courts for basketball, badminton, squash, volleyball and futsal.
- Qualified coaches and staff are available to host training sessions in a number of core sports and some extreme sports from Muay Thai to Bossaball. Regular fitness classes in pilates, yoga, combat fitness and coaching sessions in various sports from football, badminton and swimming are available for both students and the public too.

For more information about the EduCity Sports Complex, visit [www.educitysport.com](http://www.educitysport.com)



## Find out more:

[www.southampton.ac.uk/ug/life](http://www.southampton.ac.uk/ug/life)

## Follow our student bloggers:

[www.southampton.ac.uk/my/blog](http://www.southampton.ac.uk/my/blog)



02



03



04



05

- 01 Malaysia Campus
- 02 Inter-university football match
- 03 Students shopping in the local area
- 04 Lunch on campus
- 05 EduCity's swimming pool

# YOUR STUDENT LIFE IN THE UK

Years three and four are spent at our campus in the UK, which offers a friendly, vibrant and diverse atmosphere for work and leisure. Each of our seven campuses have their own distinct feel but all share a sense of community in which your studies and social life can flourish.

## Campuses

Highfield Campus caters for most of our academic courses. Incorporating state-of-the-art research and teaching facilities, it boasts new and refurbished student facilities such as the Students' Union and the Jubilee Sports Centre.

Avenue Campus houses a state-of-the-art £3m Archaeology Building and is located on the edge of Southampton Common, a short walk from Highfield.



**uni\_southampton**  
**southampton\_engineering**  
Follow us on Instagram to see more pictures of our campuses

The University's collaboration with Lloyd's Register represents one of the largest business partnerships with any single university in the world. Our Boldwood Innovation Campus is the result of this partnership and is the base for the study of engineering and home to the Southampton Marine and Maritime Institute.

One of the UK's leading teaching hospital trusts, University Hospital Southampton NHS Foundation Trust is the base for the study of medicine.

The National Oceanography Centre Southampton is our waterfront campus and is one of the world's leading research centres for the study of ocean and Earth sciences.



02

Winchester School of Art is located 12 miles north of Southampton, in Winchester city centre. The campus provides purpose-designed studios and workshops, an extensive specialist library, Students' Union facilities, a café and a well-stocked art supplies shop.

## Students' Union

Independent from the University and run by students for students, the Students' Union offers a wide range of services and opportunities for you to get the most out of your free time.

- Experience Freshers' week – a full programme of activities to help you settle in
- With more than 330 sports clubs or societies, you can try everything, from archery, quidditch and performing arts to debating and life drawing

- Have fun and give back with RAG (Raise and Give) which organises fundraising events to benefit local and national charities  
**[www.susu.org/opportunities](http://www.susu.org/opportunities)**
- Eat at The Bridge, with food from the Union's Michelin-trained chef at student prices
- See high-profile acts like Sigma, Clean Bandit and Don Broco, or have a quiet evening with friends – the Union has something for everyone, all year round
- Catch a film in the Union's 260-seat cinema, run by student volunteers
- Dance the night away in the Union's venues for large events, such as gigs and student balls
- Become a DJ or director at Surge Radio and SUSUtv
- Try out journalism for the Wessex Scene or The Edge magazines
- Get free, independent and confidential advice from the Advice Centre on matters including student finance, housing and academic issues
- Stock up in our on-campus shop and weekly outdoor market
- Take part in campaigns run by the Students' Union each year including: housing, mental health, enterprise and crowdfunding projects



03



04



- Run for one of the positions in the Students' Union's elections and become the voice of students across the University

## Sport

- Swim in our six-lane, 25-metre pool or use the varied fitness equipment across our nine gyms: six on campus and three more in the city
- Compete on over 20 grass and synthetic pitches for summer and winter sports
- Your subsidised Sport and Wellbeing membership gives you access to a host of facilities and activities across the city including a dry ski slope, athletics track and water sports
- Our recent £1.5m upgrade of sporting facilities means we can cater for everyone from beginners to national competitors

- 01 The Dancing Man Brewery
- 02 Students strolling through historic Winchester
- 03 Students performing at The Talking Heads music venue
- 04 Students' Union Officers are a familiar face on campus
- 05 An evening out at Hollywood Bowl



**Find out more:**  
[www.southampton.ac.uk/sb/life](http://www.southampton.ac.uk/sb/life)

# ACCOMMODATION

We offer modern, spacious and safe living accommodation in close proximity to our campuses in Malaysia and the UK. There are a variety of options to suit your personal budget.

## Malaysia accommodation (Years one and two and Foundation Year)

Our Malaysia Campus offers self-catering accommodation in a variety of options, including ensuite single bedrooms, twin bedrooms with ensuite and four/five-bed accommodation with a shared bathroom from EduCity's Student Village (SV) and EcoWorld's EcoNest.

Both accommodation facilities offer a safe and secure environment with CCTV surveillance and a security guard post. You will have the opportunity to mix with students from other institutions, sharing experiences and making friends.

### Student Village

Accommodation is just a few minutes stroll from our campus. All rooms have an internet connection and there are kitchen facilities on each floor comprising a fridge, microwave and water dispenser as well as a cafeteria on the ground floor.

The SV also offers impressive shared social spaces, including an outdoor sports area, general seating areas and

TV room as well as the picturesque roof terrace with views of the surrounding area. Other facilities include a launderette, cafeteria and prayer room for Muslim students. Bedding packs consisting of a pillow, pillow case, bed sheet and blanket can be purchased on request, for approximately RM100.

### EcoWorld EcoNest

Eco Nest is a luxury accommodation next to Educity and is just a 3-minute drive from campus on the shuttle service. Due to its location, Eco Nest is a great place to live for students with shops and restaurants on its doorstep.

Students can enjoy Eco Nest's impressive shared social spaces, including swimming pool, wading pool, sauna, outdoor and indoor gymnasium, sky garden, kid's room, badminton court, function room, poolside lounge, garden terrace, gourmet kitchen and BBQ area.

### How to apply for accommodation

Applications for accommodation will be possible once you have received your offer letter and accepted your offer.

You will receive a University of Southampton student ID number along with your offer letter, which you will need in order to apply for accommodation.

The deadline will differ depending on which intake you are applying for - April/ July/September (Foundation Year) or September (undergraduate).

### Guaranteed accommodation

You are guaranteed an offer of University accommodation for your Foundation Year, or first year (undergraduate) at our Malaysia Campus, which will help you settle into University life. You are welcome to apply to remain in University accommodation for your second year while you are studying in Malaysia but we cannot guarantee a place.

You are also guaranteed an offer of University accommodation for both years spent studying in Southampton. Please note you will need to fulfil the criteria of our guarantee, which includes applying as a continuing student, in January of your second year in Malaysia for your first year living in Southampton.

## Malaysia accommodation fees (2018/19 academic year)

Student Village*	Single ensuite		Twin sharing		4 sharing		5 sharing	
	RM	GPB	RM	GPB	RM	GPB	RM	GPB
Rental	939	174	731	135	524	97	695	129

Note: Prices are per month and includes electricity usage p/pax

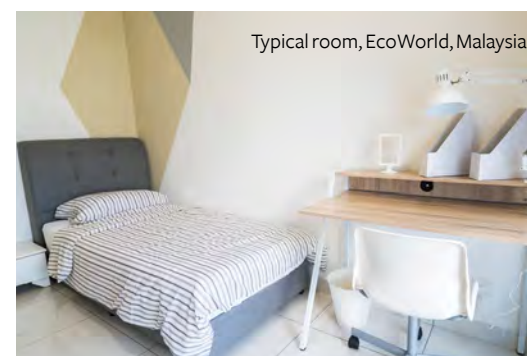
EcoNest*	Single		Twin sharing		Twin Ensuite	
	RM	GPB	RM	GPB	RM	GPB
Type E	1,000	185	750-800	139-148	850-900	157-167
Type F	1,300	241	850-900	157-167	850-900	157-167
Type G	950-1050	176-194	850-900	157-167	850-900	157-167

Note: Prices are per month; 30Mbps Internet provided, the rental includes utilities fee of RM200 per month

exchange rate £1 = MYR 5.4 as of October 2018.



Exterior view, EduCity's Student Village, Malaysia



Typical room, EcoWorld, Malaysia



Typical room, EduCity's Student Village, Malaysia



Exterior view and swimming pool, EcoWorld, Malaysia

## UK accommodation (Years three and four)

In the UK, the University of Southampton has a variety of halls spread over 7 locations in safe, secure and professionally managed accommodation, including over 1,800 bedrooms in new buildings opened since 2014.

A unilink bus pass is included in your hall fees, connecting all Southampton hall sites with our Southampton campuses.

Accommodation fees for 2019/20 are not yet available. We have provided accommodation fees for 2018/19 to give you a guide.

\* fees are subject to change without prior notice  
\*\* Catered rooms of this room type will cost approximately £44 extra per week  
\*\*\* For standard contract length (40 weeks) unless otherwise stated

## UK accommodation fees (2018/19 academic year)

Room type	Weekly price	Total***
Non-ensuite category 1	£108.57**	£4,374
Non-ensuite category 2	£108.57-£128.73**	£4,374-£5,186**
Non-ensuite category 3	£142.87	£5,756
Ensuite category 1	£128.73-£157.22**	£5,186-£6,334**
Ensuite category 2	£157.22-£169.75	£6,344-£6,839
Studio category 1	£190.05	£7,656
Studio category 2	£199.50	£8,037
One and two bedroom flats (couples and families)	Various locations prices range from £208.88-£309.61	



Find out more:  
[www.southampton.ac.uk/my/accommodation](http://www.southampton.ac.uk/my/accommodation)

# SHAPE YOUR FUTURE

**Our dedicated careers team can help you realise your potential through a wealth of opportunities beyond your core studies.**

## Fast track your ambitions

- We prepare you for future challenges not yet imagined and jobs not yet thought of
- We are among the top 25 UK universities targeted by the largest number of top 100 graduate recruiters\*
- In the most recent Destinations of Leavers from Higher Education (DLHE) statistics, 96 per cent of graduates whose destinations were known were in employment and/or further study\*\*
- We are privileged to have four University Service Units offering unrivalled opportunities for personal development through armed forces' leadership and skills training, all of which are fully transferable to civilian careers

## Showcase your potential:

- Take advantage of our commercial partnerships via bespoke internships
- Attend our annual Engineering and Technology and IT, Science and Engineering careers fairs in the UK, both of which attract around 90 leading employers in 2018, including Arm, Dyson, Intel, Cisco, Bloomberg, Visa and Vodafone
- Benefit from advice from graduates about future career possibilities through alumni career panel events
- Specialise further with one of our postgraduate courses and gain a more in-depth knowledge of your subject to realise your ambitions
- Connect with a mentor to support your transition from university into work through our Career Mentoring Programme
- Build your entrepreneurial skills by engaging with Future Worlds, our on-campus startup incubator. Visit [www.futureworlds.com](http://www.futureworlds.com)

**Southampton Aeronautics and Astronautics graduates are successfully employed at high-profile organisations such as:**

**Airbus, Aston Martin Racing, BAE Systems, British Airways, Dyson, European Space Agency, Jaguar Land Rover, Mercedes-AMG Petronas Motorsport, QinetiQ, Red Bull Racing, Republic of Singapore Air Force, Rolls-Royce, Siemens, Toyota**

**Southampton Electrical and Electronic Engineering graduates are successfully employed at high-profile organisations such as:**

**Altera, Apple, ARM, BAE Systems, BBC, Bloomberg, Cisco, Imagination Technologies, Intel, Jaguar Land Rover, J P Morgan, Network Rail, Science and Technology Facilities Council, UK Atomic Energy Authority**

**Southampton Mechanical Engineering graduates are successfully employed at high-profile organisations such as:**

**Aston Martin Lagonda, BAE Systems, Deloitte, Dyson, Ford, Fujitsu, GE Aviation, GlaxoSmithKline, Jaguar Land Rover, JP Morgan, Lloyds, Malaysia Airlines, McLaren Automotive, Panasonic, Ricardo, Rolls-Royce, Sahara Force India Formula 1 Team, Siemens**



**Find out more:**

[www.southampton.ac.uk/ug/careers](http://www.southampton.ac.uk/ug/careers)

# 400+

employers

Three annual careers fairs offer the opportunity to network with employers when studying in the UK

# >50%

of University of Southampton Malaysia's first cohort of engineering graduates earned First Class Honours degrees

# 3 months

The average amount of time for University of Southampton Malaysia graduates to find employment after graduation

\* Graduate Market in 2018, High Fliers Research

\*\* Destination of Leavers from Higher Education Survey (2016/17)

Malaysian employers visit the UK to talk about the career opportunities available for our graduates



# OUR INTERNATIONAL STUDENT COMMUNITY

**We want to ensure that the experience of all our international students at the University of Southampton is positive and rewarding. Before you arrive in Malaysia, on your arrival and throughout your studies, our network of professional services staff and academic advisors will help you to settle in and offer ongoing support.**

## International visits

Staff from our Malaysia and UK campuses make numerous visits overseas each year, including delivering predeparture information briefings.

Face-to-face contact is one of the best ways of getting to know the University if you can't actually visit us here. For a list of events we will be attending in the future, visit [www.southampton.ac.uk/meetus](http://www.southampton.ac.uk/meetus) and [www.southampton.ac.uk/my/events](http://www.southampton.ac.uk/my/events)

## IN MALAYSIA

### Meet and Greet

Our Meet and Greet Service from Kuala Lumpur International Airport and Senai International Airport is free of charge to students and will help make your journey to our Malaysia Campus as simple and stress-free as possible. To ensure you are met by a

University staff member, inform our Malaysia Campus seven working days before you travel.

### Visa applications

The University requires all international students (except diplomatic pass holders and Malaysian permanent residents) to hold a student pass while studying at our Malaysia Campus. Students are advised to submit the visa application form and complete documentation no less than 3 months before the intake date. You are advised not to enter Malaysia until you have received the original copy of Electronic Visa Approval Letter (eVAL) issued by the Malaysian Immigration Department.

For more information, visit <https://educationmalaysia.gov.my/how-to-apply.html>

## IN THE UK

### Meet and Greet

Our Meet and Greet Service from London Heathrow and London Gatwick airports is free of charge and is designed to get you to Southampton in time for the Welcome Programme. For more information, visit [www.southampton.ac.uk/international-welcome](http://www.southampton.ac.uk/international-welcome)

### Visas

Before you join us, you will need to find out about the UK's immigration procedures well in advance of your arrival in the UK. Our website provides information on student visas, police registration, working in the UK and has links to other useful websites.

For more information, visit [www.southampton.ac.uk/ugp/visa](http://www.southampton.ac.uk/ugp/visa)

"I am from Egypt and I chose to study at the University of Southampton because its reputation in engineering is unmatched. Also, I chose Southampton because of the opportunity to study at the University's Malaysia Campus, which offers a very high staff to student ratio and a more personal experience, at a fraction of the cost."

**Mahmoud Ashraf Hassan Wagih**  
MEng Electrical and Electronic Engineering 4th year Malaysia Campus student



"One thing I've always wanted was to have the best education in the world. Studying at the University of Southampton, the sky is the limit, I've learnt a lot from my lecturers and fellow students. As class sizes are small here, we get more individual supervision with our studies. They are open to anything we ask and never tire of our questions. Apart from what's in the textbooks, they would also offer advice on various things, such as about life."

**Chin Wee**  
Engineering Foundation Year student, 2018



**Find out more:**  
[www.southampton.ac.uk/sb/international](http://www.southampton.ac.uk/sb/international)

# YOUR COURSES

## Engineering Foundation Year

### Choose Southampton

- The Foundation Year is combined with a further four-year degree
- Provides an introduction to the key concepts of engineering
- You will receive a high level of support and feedback
- Three intakes a year - April, July and September

CHOOSE FROM

# 17

undergraduate degree subjects on completion

## TAUGHT on campus

by University academics

You will learn through a combination of lectures, tutorials, laboratory experiments, coursework, and individual and group projects.

# ENGINEERING FOUNDATION YEAR

MQA/FA 5359

### Course | Duration

#### Engineering Foundation Year 1 year

This stimulating year of study will equip you with the knowledge, skills and attributes needed to successfully meet the challenges of our engineering degree programmes.

This one-year full-time course is integrated with a further four-year MEng degree, and will build your understanding of mathematics, mechanics, computer programming, electricity and electronics, and engineering principles.

Successful completion of this Foundation Year guarantees progression to one of our engineering degrees.

Through a high level of learning support and a wide range of teaching styles, you will be encouraged to develop the academic skills needed for efficient and independent learning, preparing you for the years of study ahead.

You will be assessed through a combination of examinations and coursework activities such as formal reports, research posters, laboratory reports, and reflective portfolios – all of which you will encounter during your degree.

“The Foundation Year has prepared me well for the future by offering an opportunity for both academic and personal development.”

**Lim Jia Jun**  
Engineering Foundation Year 2016

Students may progress to degree programmes in the following subjects:

#### At University of Southampton Malaysia

- Aeronautics and Astronautics
- Electrical and Electronic Engineering
- Mechanical Engineering

#### At University of Southampton, UK

- Acoustical Engineering
- Aeronautics and Astronautics
- Aerospace Electronic Engineering
- Biomedical Electronic Engineering
- Civil Engineering
- Civil and Environmental Engineering
- Computer Science
- Electrical Engineering
- Electrical and Electronic Engineering
- Electronic Engineering
- Geophysics
- Mathematics
- Mechanical Engineering
- Mechatronic Engineering
- Physics
- Ship Science
- Software Engineering

#### Typical course content

- Academic and Personal Development
- Communicating in English
- Computer Applications
- Electricity and Electronics
- Engineering Principles
- Fundamentals of Science and Engineering
- Mathematics for Science and Engineering
- Mechanical Science
- Routes to Success

### Key information

Our standard offers are listed below but where we have places available, students may be admitted with slightly lower grades

**Sijil Pelajaran Malaysia (SPM)/ O level or equivalent: 5 As** in the science stream, including Mathematics and Physics. Minimum B+ in Additional Mathematics

**IB: 32 points overall**, and must not include subjects suitable for direct entry into undergraduate programmes, normally both Higher Level Mathematics and Physics

**Sijil Tinggi Persekolahan Malaysia (STPM)/A level: ABB** (cannot include subjects suitable for direct entry into undergraduate programmes, normally both Mathematics and Physics). However, students need to show an aptitude for Mathematics and may be asked to take a Foundation Mathematics test.

#### English language qualifications:

Students who achieve **band 1A IELTS 5.5** with at least **5.5** in each component will be required to follow the language pathway where students will take the module English for Engineers and Scientists in semester one and two, as well as Communicating in English in semester zero.

Students who achieve **band 1C IELTS 6.5** with at least **5.5** in each component will only require English language classes in the first semester.

For other qualifications accepted visit [www.southampton.ac.uk/admissions\\_language](http://www.southampton.ac.uk/admissions_language)

**Application process:** Apply directly via our website [www.southampton.ac.uk/my/foundation/apply](http://www.southampton.ac.uk/my/foundation/apply)

Our typical entry requirements may be subject to change. Before you apply, please visit [www.southampton.ac.uk/my/foundation/about](http://www.southampton.ac.uk/my/foundation/about)

**Intakes:** April, July and September



### Find out more

For more details about your course such as module information and course structure, visit

[www.southampton.edu.my](http://www.southampton.edu.my)

Or to have specific questions answered:

**T:** +607-560 2560 (Malaysia)

**T:** +44 (0)23 8059 9699 (UK)

**E:** [marketing.malaysia@southampton.ac.uk](mailto:marketing.malaysia@southampton.ac.uk)

# YOUR COURSES

## Aeronautics and Astronautics

### Choose Southampton

- Access to world-class facilities including our wind tunnel complex, used by Formula One and Olympic athletes
- Design projects within each year of study develop engineering capabilities
- MEng Aeronautics and Astronautics programme provide a route to Chartered Engineer (CEng) status, recognised by international bodies including Board of Engineers Malaysia via the international agreement known as the Washington Accord
- Our MEng is accredited\* by the Royal Aeronautical Society (RAeS) and the Institution of Mechanical Engineers (IMechE).
- Flying opportunities through the Students' Union in the UK
- Students on the split-campus programme (2 years in Malaysia and 2 years in the UK) are offered the same course content and teaching quality as students in the UK for all four years



We are the **only Russell Group university** to offer degrees that combine both aeronautics and astronautics

# No 4

**in the UK**  
The Complete University Guide, 2019

Fourth-year student, Aria Vitkova. Testing the CubeSat in the thermal vacuum chamber

**Our Aeronautics and Astronautics graduates are in great demand from some of the world's leading companies. Studying Aeronautics and Astronautics will prepare you to design future aircraft, engines, satellites and other spacecraft.**

### Programme structure

You can either choose to retain a broad-based study path with our MEng Aeronautics and Astronautics, or to select one of our six specialised degrees. You will learn through a combination of lectures, tutorials, laboratory experiments, coursework and individual and group projects.

Our degrees integrate design projects and the development of design skills within each year of study. Practical work enables you to gain hands-on experience and develop the critical skills and judgment needed for your future career.

Our teaching follows the semester pattern of our UK campuses. Two semesters begin at the end of September and January, with examinations in January and May.

Should you choose to exit this programme after successfully completing three years of study, you will be eligible for a BEng qualification. The BEng route develops the same core skills as the MEng, however by choosing the MEng you will study a more extensive range of subjects at an advanced level.

### Years one and two in Malaysia

The first two years are the same across our Aeronautics and Astronautics degrees. Students focus on core engineering science, such as aerodynamics, propulsion systems, mechanics of flight, fluid dynamics and control, giving you a professional grounding for the design and operation of air vehicles and spacecraft.

### Years three and four in the UK

In year three you will carry out an individual project, which brings together the concepts and skills you have learned. In the past, students have studied the deflection of asteroids, and investigated the aerodynamics of a race car wing.

In year four, you will take advanced modules related to your chosen degree, and participate in a major group design project, applying your engineering knowledge to a design problem.

Our fourth-year group design projects are often linked to current research activities or sponsored by industry. Previous projects have included the design and manufacture of a hybrid sounding rocket for space research, and a UAV for search and rescue operations.

### Career opportunities

Recent graduates are employed at organisations including: BAE Systems, European Space Agency, Jaguar Land Rover, Mercedes-AMG Petronas Motorsport, and Rolls-Royce.

Our programmes offer a route to chartered status and are fully accredited\* by the Royal Aeronautical Society and Institution of Mechanical Engineers.

Our degrees are aligned to the UK Space Agency Programme, and we have strong links with the European Space Agency and other major aerospace companies.

\*Engineering programmes in School of Engineering are applying for reaccreditation for the 2019/2020 entry cohort

### Mandatory modules

#### Year 1

Aircraft Operations and Flight Mechanics  
Design and Computing  
Electrical and Electronic Systems  
Mathematics  
Mechanics, Structures and Materials  
Thermofluids

#### Year 2

Aerodynamics  
Astronautics  
Engineering Management and Law  
Materials and Structures  
Mathematics  
Mechanics of Flight  
Propulsion  
Systems Design and Computing

#### Year 3

Aerospace Control Design  
Aerothermodynamics  
Introduction to Aircraft Design  
Aircraft Structural Design  
Individual Project

#### Year 4

Group Design Project

## Further information

For information on modules available in years one and two, visit

[www.southampton.ac.uk/my/aero](http://www.southampton.ac.uk/my/aero)

For information on modules available in years three and four, visit

[www.southampton.ac.uk/engineering/aero](http://www.southampton.ac.uk/engineering/aero)

# MEng AERONAUTICS AND ASTRONAUTICS

MQA/FA 4644

## Key information

Successful applicants typically have **AAA** or above at A level in Mathematics, Physics and one other (except General Studies and Critical Thinking). Pass in science practical assessment is required where applicable.

The equivalent to that would be **IB: 36 points overall**, 18 at Higher Level including 6 in both Higher Mathematics and Higher Physics

**Sijil Tinggi Persekolahan Malaysia (STPM): AA** in Mathematics and Physics plus A in one other subject

**Unified Examination Certificate (UEC) – Senior Middle Level:** Students studying Science track in English with **minimum 4 As** including Mathematics I and II and Physics (not including Art, Chinese, Malay or Mathematics)

**Diploma in Mechanical Engineering (Aeronautics), Universiti Teknologi Malaysia (UTM):** First-year entry with **minimum GPA of 3.4**

**Monash University Foundation Year:** **Minimum of 310 overall** with 80 per cent average in Mathematics and Physics, and subject to attending an extended technical induction programme

**English language qualifications: Band 1C, IELTS 6.5 overall** with at least 5.5 in each component. For other qualifications accepted, visit [www.southampton.ac.uk/admissions\\_language](http://www.southampton.ac.uk/admissions_language)

**Application process:** Apply directly via our website [www.southampton.ac.uk/my/apply](http://www.southampton.ac.uk/my/apply)

Our typical entry requirements may be subject to change. **Before you apply**, please visit [www.southampton.ac.uk/my/entry-requirements](http://www.southampton.ac.uk/my/entry-requirements)

## Degree | Duration

### MEng Aeronautics and Astronautics | 4 years

You will study aerodynamics, astronautics, and propulsion, in addition to the economic, legal and environmental issues associated with aircraft and spacecraft. In your third and fourth years, you will extend your knowledge and skills in your third and fourth years, taking part in individual and group projects.

### MEng Aeronautics and Astronautics / Aerodynamics | 4 years

This programme will provide you with the knowledge and skills to analyse and control aerodynamic behaviour. Your third and fourth years will focus on aerodynamic theory and practice for the design of vehicles, wings and propulsion systems. This course provides excellent preparation for both the aerospace and Formula 1 industries.

### MEng Aeronautics and Astronautics / Airvehicle Systems Design | 4 years

This programme focuses on aeronautical topics, with an emphasis on helicopters and fixed-wing aircraft, engine design, and avionics. Using a complete vehicle systems approach, you will also learn about modern design, search and optimisation techniques. This programme is ideal for a career in air vehicle design.

### MEng Aeronautics and Astronautics / Computational Engineering and Design | 4 years

This programme will develop your knowledge of computational methods

in aeronautics and astronautics. The third and fourth years will provide you with the skills to solve new and emerging aerospace design challenges using advanced computational methods.

### MEng Aeronautics and Astronautics / Engineering Management | 4 years

This programme will provide you with the technical skills to understand, design and manufacture innovative products, alongside the management expertise to take projects from initial concept to completion. In your third and fourth years, you will learn about business strategy, finance, and managing people and projects.

### MEng Aeronautics and Astronautics / Materials and Structures | 4 years

This programme focuses on building your knowledge of structural design and materials selection for aerospace applications. In your third and fourth years you will develop your understanding of how materials behave, and enhance your skills in the structural analysis of aircraft and spacecraft.

### MEng Aeronautics and Astronautics / Spacecraft Engineering | 4 years

This programme will develop your knowledge of overall spacecraft system design, including subsystems and their interfaces. You will learn to design, examine and test spacecraft systems, as well as understand their environmental impact. This programme provides excellent preparation for a career in the space industry.



“Companies such as SpaceX, OneWeb and Samsung have recently announced plans for constellation operations, specifically hundreds to thousands of similar satellites working together to achieve a similar objective. The issue with introducing so many objects into the orbital environment is that it can cause an increase in the probability of collisions between objects. My project involved trying to compare typical avoidance strategies with each other focusing on low-thrust manoeuvres.

I chose to study at the University of Southampton Malaysia because of its more affordable tuition fee structure as well as offering a course I was very interested in – spacecraft engineering. One of the highlights of my studies was in my second year, when I represented the university in the Institution of Engineering and Technology (IET)’s Present Around the World (PATW) competition in Sydney. Additionally I was proud to be awarded a 100 per cent tuition fee scholarship in my first year of study. In the future, I want to help my country to plant a foot in the new space race.”

**Sean-Michael Morais**

MEng Aeronautics and Astronautics, fourth-year Malaysia Campus student



## Find out more

For more details about your course such as module information and course structure, visit

[www.southampton.edu.my](http://www.southampton.edu.my)

E: [marketing.malaysia@southampton.ac.uk](mailto:marketing.malaysia@southampton.ac.uk)

# YOUR COURSES

## Electrical and Electronic Engineering

### Choose Southampton

- Southampton is ranked number two in the UK by *The Guardian University Guide, 2019* for electrical and electronic engineering
- £110m state-of-the-art interdisciplinary cleanroom, high-voltage laboratory, and outstanding undergraduate laboratory facilities in the UK
- First in the UK for the volume and quality of our electrical and electronic engineering research (REF, 2014)
- MEng Electrical and Electronic Engineering programme provide a direct route to Chartered Engineer (CEng) status, recognised by international bodies including Board of Malaysia via the international agreement known as the Washington Accord
- Students on the split-campus programme (2 years in Malaysia and 2 years in the UK) are offered the same course content and teaching quality as students in the UK for all four years

# No.1

in Europe for  
Telecommunication Engineering  
*ShanghaiRanking's Global Ranking  
of Academic Subjects 2018*

# No.2

in UK for Electrical and  
Electronic Engineering  
*The Guardian University  
Guide, 2019*

Our students can expect the latest technology and state-of-the-art equipment to support their degree programmes; Southampton's multi-million pound undergraduate labs offer sector leading capabilities.

Electrical and Electronic Engineering influences many aspects of modern life, ranging from energy, healthcare, entertainment and commerce, to communications, manufacturing and the environment. Electrical and Electronic Engineering is a challenging and evolving subject that is relevant to a wide range of industries, including the power sector and the electronics industry.

At Southampton, you will gain a broad spectrum of knowledge and skills required to work in the technology sector, but also the wider range of competencies needed by today's professional engineer. This breadth of knowledge is developed using a systematic approach to most subjects – blending the core technical syllabus with ongoing design exercises that run throughout the programme. In Electronics and Computer Science (ECS), you will use some of the most advanced teaching facilities in the world to put the theory you have learned in lectures into practice and deliver real results.

### Programme structure

We employ a combination of formal and special lectures, tutorials, classes, laboratory experiments, coursework and individual and group projects. Practical laboratory work forms an essential part of our degree programmes, providing opportunities to get to grips with key equipment in our world-class facilities and improve critical skills and judgement. We will also help you to develop key skills including written and oral presentation skills.

The teaching is structured on a semester pattern. The academic calendar will follow that of our UK Campus and is comprised of two semesters commencing at the end of September and January, with examinations at the end of January and May.

Should you choose to exit this programme after successfully completing three years of study, you will be eligible for a BEng qualification. The BEng route develops the same core skills as the MEng, however by choosing the MEng you will study a more extensive range of subjects at an advanced level.

### Years one and two in Malaysia

During your first two years at our Malaysia Campus, you will concentrate on the fundamentals of electrical and electronic engineering with an increasing emphasis on design as the course progresses.

In your first year, you will study the core principles of electrical and electronic engineering. You will also spend about 50 per cent of your time in the laboratories learning and developing practical skills in designing, building, programming and testing electronic systems. In year two, you will put your learning into practice by designing and building a fully functional 'smart meter' as well as designing and testing a silicon chip. You will learn how to use professional software designing tools widely used in the electrical and electronic industry throughout your coursework and design exercises.

### Years three and four in the UK

In your third year of study, you will have the opportunity to choose courses from a wide selection of 60 subject modules. You will also undertake an individual design or research project based in a research group in ECS. Third-year projects from ECS have led to commercialisation and publication in journals and conferences. In the fourth year, MEng students choose from a range of modules and work on a group design project, typically developed in conjunction with an industrial partner. The contribution of these projects is highly valued by the associated companies.

### Career opportunities

Employability is embedded in all stages of our degrees and we strive to ensure you get the career you deserve. A panel of representatives from major employers

regularly meet to ensure our graduates have the required skills in this fast moving field. The technical skills you will obtain are in high demand, as are the skills of understanding and analysing problems, together with communicating the results. Our graduates have highly exciting career opportunities in some of the most advanced and leading companies in the world such as ARM, Samsung, Siemens, BAE Systems and Boeing.

Typical roles include Electronic Engineer, Electrical Engineer, Microelectronics Engineer, Embedded Systems Engineer, Instrumentation and Control Engineer, High Voltage Electrical Engineer.

"I chose to study at the University of Southampton because it's reputation in engineering is unmatched. I have always found the EEE lab to be my favourite spot on campus as I can benefit from the state-of-the-art facilities."

**Mahmoud Ashraf Hassan  
Wagih Mohamed**  
MEng Electrical and Electronic Engineering,  
third-year Malaysia Campus student



### Further information

For information on modules available in years one and two, visit

[www.southampton.ac.uk/my/eee](http://www.southampton.ac.uk/my/eee)

For information on modules available in years three and four, visit

[www.southampton.ac.uk/ecs/eee](http://www.southampton.ac.uk/ecs/eee)

# MEng ELECTRICAL AND ELECTRONIC ENGINEERING

MQA/FA 3103

## Degree | Duration

**MEng Electrical and Electronic Engineering** | 4 years

## Course Overview

Electrical and electronic engineering drives the fundamental technologies of today's connected world. Every area of our lives, from energy supply and transmission, medicine and healthcare to industrial applications, global trade, transport, communications, entertainment and security, is dependent on electrical and electronic technology. As a result, electrical and electronic engineering is now one of the fastest growing job fields in the world and skilled electrical and electronic engineers are very much in demand.

## Course Content

At Southampton, we will ensure that you have a thorough grounding in a wide range of technologies. Our project work will enable you to acquire valuable skills in teamwork, project planning, time-management and presentation, applying your learning to design and build problems, and working to a brief. All of these will stand you in good stead as you move into your career.

## Programme overview

This degree develops the technical and project management skills needed to become a leader in the electrical and electronics industry. It covers topics ranging from the technologies of electrical power and control to analogue and digital electronics and computing. The first two years will cover the breadth of electrical and electronic engineering. In years three

and four, you can tailor your studies according to your interests through the wide range of option modules available, examples of which are listed below.

## MEng Electrical and Electronic Engineering pathways

All students on this programme gain a fundamental understanding across electrical and electronic engineering principles, however the various pathways (some of which are shown below) allow you to specialise further in particular areas by choosing optional modules.

### Power Systems

On this pathway, you will learn the fundamental concepts relating to the principles and design of modern electrical power systems and their impact on society. You are able to learn about power transmission and distribution, develop electromechanical design skills, and understand the properties and applications of electrical materials. Southampton's renowned Tony Davies High Voltage Laboratory will be among the facilities available to you on this pathway.

### Digital and Analogue Electronics

A thorough understanding of both digital and analogue electronics is essential for today's EEE engineers, and this pathway allows students to supplement this with optional modules in VLSI design and system-on-chip, green electronics, analogue CMOS, and medical electronics.

### Computer Science/Software Engineering

Through specialised modules, you will develop a sound understanding of using software to solve

engineering design problems and prepare for work in rapidly expanding industries, including artificial intelligence, cyber security, computer graphics, embedded systems, and computer vision.

### Artificial Intelligence

This pathway will focus on the design and implementation of state-of-the-art artificial intelligence techniques and algorithms. Taking modules linked to artificial intelligence will allow you to study the application and implementation of these modern techniques for image processing and computer vision, machine learning, robotic systems, smart-grid, computational biology and finance.

### Nanotechnology and Photonics

Through this pathway you will learn the fundamental concepts governing semiconductor devices, fibre optics and lasers, and cleanroom fabrication techniques. MEng students have the opportunity to fabricate and characterise their own microchips in Southampton's state-of-the-art £110M Cleanroom Complex.

### Communications and Control

Covering techniques critical to the information and robotic age, this pathway covers communication technologies (networking, wireless communication, green communication, multimedia communications, RF transceivers) and the control of robotics (digital control, biologically-inspired robotics).

### Mathematics

As a student gifted in mathematics, you can continue to develop your ability over and above the compulsory

In a second-year project, teams of six students were challenged to design, build, test and demonstrate a complete electronic system in just three weeks. In recent years, the industry-sponsored challenges have included a live audio performance system and an unmanned aerial vehicle (UAV) that can pick up, carry and drop off cargo.

engineering mathematics that runs through the programme. Optional modules span a wide range of areas, including advanced partial differential equations, statistics for engineering systems, numerical methods and the use of MATLAB, optimisation and integral transform methods.

## Mandatory modules

### Year 1

Advanced Programming  
Digital Systems and Microprocessors  
Electrical Materials and Fields  
Electronic Circuits  
Electronic Systems  
Mathematics 1  
Programming  
Solid State Devices

### Year 2

Circuits and Transmission  
Control and Communications  
Devices\*  
Digital Systems and Signal Processing  
Electrical and Electronic Engineering Design  
Electrical Machines\*  
Electromagnetism  
Mathematics 2  
Power Electronics and Drives

### Year 3

Engineering Management and Law  
Individual Project  
Choose 4 from around 60 optional modules

### Year 4

Group Design Project  
Choose 5 from around 40 optional modules

## Innovative teaching

Our students may enhance their practical skills in digital electronics by building and using some of our Micro Arcana family of processing boards: Il Matto (8-bit Atmel microcontroller), Il Bagatto (Altera CPLD), La Papessa (Xilinx FPGA) and L'Imperatrice (Freescale ARM9 applications processor). These boards have been designed in-house to enhance student learning and include similar capabilities to Arduino and Raspberry Pi. Once our students have built these boards, they are theirs to keep. They will use them as part of the taught programme and can use them in their personal projects.

## Engineering the future

Studying Electrical and Electronic Engineering at the University of Southampton can provide an early boost to an exceptional career:

- We are ranked second equal for graduate prospects in Electrical and Electronic Engineering in the Complete University Guide 2019
- The average starting salary for our Electronics and Computer Science graduates in the UK is £30,637, RM161,763\*\* (Most recent Destinations of Leavers from Higher Education statistics, 2016/17)

\* Optional module for Year 2

\*\* £1 = MYR5.28 as of August 2018

## Key information

Successful applicants typically have AAA or above at A level, in Mathematics, Physics and one other (except General Studies and Critical Thinking). Pass in science practical assessment is required where applicable.

The equivalent to that would be **IB: 38 points overall**, 18 at Higher Level including 6 in both Higher Mathematics and Higher Physics

**Sijil Tinggi Persekolahan Malaysia (STPM): AA** in Mathematics and Physics plus **A** in one other subject  
**Unified Examination Certificate (UEC) – Senior Middle Level:**  
**Minimum 5 As** including Mathematics I and II and Physics (not including Art, Chinese or Malay)

**Monash University Foundation**  
**Year: Minimum of 310 overall** with 80 per cent average in Mathematics and Physics, and subject to attending an extended technical induction programme

**English language qualifications:**  
**IELTS band 1C 6.5 overall** with at least 5.5 in each competence. For other qualifications accepted, visit [www.southampton.ac.uk/admissions\\_language](http://www.southampton.ac.uk/admissions_language)

**Application process:** Apply directly via our website [www.southampton.ac.uk/my/apply](http://www.southampton.ac.uk/my/apply)

Our typical entry requirements may be subject to change.

**Before you apply,** please visit [www.southampton.ac.uk/my/entry-requirements](http://www.southampton.ac.uk/my/entry-requirements)



## Find out more

For more details about your course such as module information and course structure, visit

[www.southampton.edu.my](http://www.southampton.edu.my)

Or to have specific questions answered:

**T:** +607-560 2560 (Malaysia)

**T:** +44 (0)23 8059 9699 (UK)

**E:** [marketing.malaysia@southampton.ac.uk](mailto:marketing.malaysia@southampton.ac.uk)

# WHAT IS YOUR NEW WORLD DEVELOPING?

## An Image Compression Engine on a Field-programmable Gate Array (FPGA)

“My final year Group Design Project involved working with Intel Malaysia to develop an Image Compression Engine on an FPGA using the Run-Length Encoding algorithm. This project gave me the opportunity to not only apply the skills I have learnt at university so far, but also to incorporate industrial standard methodology by collaborating with Intel to deliver a product in a time-constrained environment. Additionally, we carried out a comparative software evaluation of other competitive algorithms in order to deduce the suitability of these algorithms in-line with expectations of the ever-growing Big Data world.

I was interested in Southampton's Electronics and Computer Science (ECS) department as it is consistently rated the best in the UK. Additionally, the choice of spending two years in Malaysia was a great benefit too. Studying my course is intensive yet an amazing learning experience due to the state-of-the-art facilities and assistance offered by lecturers who are experts in their field. ECS has a dedicated computing lab and two general labs for undergraduates to use.

I have had the opportunity to participate in the Business Innovation Program which was a great consulting work experience as well as internships with NEXUSS and the University, both of which helped me secure a position as a Graduate Consultant at Deloitte.”

**Shivank Sharma**

MEng Electrical & Electronics Engineering, Malaysia Campus 2018



**Find out more:**

[www.southampton.ac.uk/shivank](http://www.southampton.ac.uk/shivank)



# YOUR COURSES

## Mechanical Engineering

### Choose Southampton

- Access to world-class facilities including our wind tunnel complex, used by Formula One teams and Olympic athletes
- Degrees accredited\* by the Institution of Mechanical Engineers (IMechE) in the UK
- Design projects in each year of study develop valuable engineering capabilities
- MEng Mechanical Engineering programmes provide a route to Chartered Engineer (CEng) status, recognised by international bodies including Board of Malaysia via the international agreement known as the Washington Accord
- Students on the split-campus programme (2 years in Malaysia and 2 years in the UK) are offered the same course content and teaching quality as students in the UK for all four years

# No.6

IN UK  
for Mechanical  
Engineering  
The Guardian University  
Guide, 2019

Fourth-year students designed and built a Mars rover, and entered the international University Rover Challenge

**Mechanical Engineering brings together creativity and design with mathematical and scientific principles, and impacts across a broad range of industries. Mechanical engineers use their creative, managerial, technical, and analytical skills to develop next generation technologies from biomedical, sustainable energy, naval, and aviation to automotive.**

### Programme structure

You can either choose to retain a broad-based study path with our MEng Mechanical Engineering, or to select one of our 10 specialised degrees. You will learn through a combination of lectures, tutorials, laboratory experiments, coursework, problem-solving exercises and individual and group projects.

Our degrees integrate design projects and the development of design skills within each year of study. Practical work enables you to gain hands-on experience and develop the critical skills and judgment needed for your future career.

Our teaching follows the semester pattern of our UK campuses. Two semesters begin at the end of September and January, with examinations in January and May. Each module contributes to your final degree.

Should you choose to exit this programme after successfully completing three years of study, you will be eligible for a BEng qualification. The BEng route develops the same core skills as the MEng, however by choosing the MEng you will study a more extensive range of subjects at an advanced level.

### Years one and two in Malaysia

The first two years are the same across our Mechanical Engineering degrees. You will learn the essential principles of mechanical engineering, as well as law and management, systems design, and modelling and computing, in order to take a product from initial concept to the marketplace.

### Years three and four in the UK

In year three you will carry out an individual design or research project, which brings together the concepts and skills you have learned. You will also carry out additional module options.

In year four you will take advanced modules related to your chosen degree and participate in a major group design project, applying your engineering knowledge to a design problem.

Our fourth-year group design projects are often linked to current research activities or sponsored by industry. Previous projects have included the design and manufacture of a wall-climbing robot with surveillance capabilities, and a lower-limb exoskeleton for rehabilitation.

### Career opportunities

Recent graduates are employed at organisations including: Aston Martin Lagonda, Dyson, Jaguar Land Rover, Malaysia Airlines, Rolls-Royce, and Siemens.

Our programmes offer a route to chartered status and are accredited\* by the Institution of Mechanical Engineers.

Links with industry are strong throughout your degree, with opportunities ranging from careers talks, through to projects led by organisations such as Siemens.

### Mandatory modules

#### Year 1

Design and Computing  
Electrical and Electronic Systems  
Mathematics  
Mechanics, Structures and Materials  
Mechanical Systems Analysis  
Thermofluids

#### Year 2

Electronics, Drives and Control  
Engineering Management and Law  
Fluid Mechanics  
Materials and Structures  
Mathematics  
Mechanics, Machines and Vibration  
Systems Design and Computing  
Thermodynamics

#### Year 3

Engineering Design with Management  
Individual Project  
Manufacturing and Materials

#### Year 4

Group Design Project

## Further information

For information on modules available in years one and two, visit

[www.southampton.ac.uk/my/mech](http://www.southampton.ac.uk/my/mech)

For information on modules available in years three and four, visit

[www.southampton.ac.uk/engineering/mech](http://www.southampton.ac.uk/engineering/mech)

\*Engineering programmes in School of Engineering are applying for reaccreditation for the 2019/2020 entry cohort

# MEng MECHANICAL ENGINEERING

MQA/FA 0811

## Degree | Duration

### MEng Mechanical Engineering | 4 years

This programme covers the essential principles of mechanical engineering, such as mechanics, structures and materials, design and computing. You will extend your knowledge and skills in your third and fourth years, taking part in individual and group projects.

### MEng Mechanical Engineering / Acoustical Engineering | 4 years

This programme will provide you with the knowledge to focus on the analysis, control and design of sound and vibration, and provides you with wide ranging acoustical engineering skills, for instance to reduce jet engine noise, optimise the sound of automotive engines, or improve the accuracy of ultrasound scans.

### MEng Mechanical Engineering / Advanced Materials | 4 years

This programme will provide you with in-depth knowledge of the properties of both established and novel materials that are essential in modern engineered systems. You will study advanced topics such as the modelling of material behaviour, and develop the skills to design materials and surfaces from atoms to applications.

### MEng Mechanical Engineering / Aerospace | 4 years

This programme will develop your expertise in aerospace systems, whilst maintaining the broad-based background associated with mechanical engineering. During your third and fourth years, you will focus on aircraft aerodynamics, propulsion, avionics and structural design.

### MEng Mechanical Engineering / Automotive | 4 years

This programme focuses on a broad range of design and operational aspects related to automobile systems, from car structure and dynamics, to noise and vibration issues, and human factors. During your third and fourth years you will develop the specialist skills and knowledge required for a career in the automotive industry.

### MEng Mechanical Engineering / Biomedical Engineering | 4 years

This programme blends engineering with biological and medical aspects of healthcare technologies. During your third and fourth years, you will focus on the mechanics of the human body, medical technologies and human factors in engineering. You will develop expertise to enable you to solve challenges faced in the design, materials selection, development, and testing of medical implants and other devices.

### MEng Mechanical Engineering / Computational Engineering and Design | 4 years

This programme focuses on developing the specialist skills you need to unlock the potential of today's immense computational power. During your degree, you will learn how to leverage sophisticated software to design complex technologies, and how to code and implement your own models and simulations.

### MEng Mechanical Engineering / Engineering Management | 4 years

This programme will provide you with the technical skills to understand, design and manufacture innovative products, alongside the management expertise to take projects from initial concept to completion. In your third and fourth years, you will learn about business strategy, finance, and managing people and projects.

### MEng Mechanical Engineering / Mechatronics | 4 years

This programme will provide you with specialist expertise in the integration of electrical and mechanical systems. You will have the opportunity to study and practise mechanical, electrical, and control engineering to develop smarter machines ranging from autonomous robots to self-driving cars.



A student undertaking biomedical imaging of bone cells using an electron microscope

### MEng Mechanical Engineering / Naval Engineering | 4 years

This programme has been developed in conjunction with the Royal Navy. You will study marine engineering, ship science and marine craft concept design, alongside the key principles of mechanical engineering. You will develop the skills to apply your knowledge to cutting-edge ship and maritime craft design.

### MEng Mechanical Engineering / Sustainable Energy Systems | 4 years

This programme explores sustainable energy technologies such as wind turbines, solar cells, batteries and fuel cells, combined with a holistic view of societal aspects of energy, its distribution and use. In your third and fourth years, you will study the behaviour of fluids, and thermal and heat transfer phenomena at an advanced level.

"I enjoy the process of designing and manufacturing. Using engineering principles to shape an idea, then present it to the real world, is an amazing prospect, and this course helps me achieve that."

**Ryan Prasad**  
MEng Mechanical Engineering, 2018  
Malaysia Campus

## Key information

Successful applicants typically have **AAA** or above at A level, in Mathematics, Physics and one other (except General Studies and Critical Thinking). Pass in science practical assessment is required where applicable.

The equivalent to that would be **IB: 36 points overall**, 18 at Higher Level including 6 in both Higher Mathematics and Higher Physics

**Sijil Tinggi Persekolahan Malaysia (STPM): AA** in Mathematics and Physics plus A in one other subject

**Unified Examination Certificate (UEC) – Senior Middle Level:**

Students studying Science track in English with **minimum 4 As** including Mathematics I and II and Physics (not including Art, Chinese, Malay or Mathematics)

**Diploma in Mechanical Engineering (Aeronautics), Universiti Teknologi Malaysia (UTM):** First-year entry with **minimum GPA of 3.4**

**Monash University Foundation Year: Minimum of 310 overall** with 80 per cent average in Mathematics and Physics, and subject to attending an extended technical induction programme

**English language qualifications: Band 1C IELTS 6.5 overall** with at least 5.5 in each component. For other qualifications accepted, visit [www.southampton.ac.uk/admissions\\_language](http://www.southampton.ac.uk/admissions_language)

**Application process:** Apply directly via our website [www.southampton.ac.uk/my/apply](http://www.southampton.ac.uk/my/apply)

Our typical entry requirements may be subject to change.

**Before you apply**, please visit [www.southampton.ac.uk/my/entry-requirements](http://www.southampton.ac.uk/my/entry-requirements)



## Find out more

For more details about your course such as module information and course structure, visit

[www.southampton.edu.my](http://www.southampton.edu.my)

Or to have specific questions answered:

**T:** +607-560 2560 (Malaysia)

**T:** +44 (0)23 8059 9699 (UK)

**E:** [marketing.malaysia@southampton.ac.uk](mailto:marketing.malaysia@southampton.ac.uk)

# EMBRACE YOUR NEW WORLD

## What will your new world investigate?

### The different failure behaviours in Carbon Fibre Reinforced Polymers (CFRP)

“Structural integrity of engineering materials is an important aspect in engineering design, especially for structures in safety critical industries. The objective of my Individual Project was to investigate the different failure behaviours in Carbon Fibre Reinforced Polymers (CFRP). The micro computed tomography (CT) scanner (ZEISS Xradia 510 Versa) was used to scan the samples with multi-scale resolutions. This CT scanner can achieve sub-micron resolutions for samples within the millilitre to centimetre range. I gained valuable experience being exposed to composite materials and my project strengthened my analytical skills as well as giving me the opportunity to learn a new skill of image processing.

I chose to study MEng Mechanical Engineering, majoring in aerospace as I have always been interested in aircraft and aerodynamics. The flexibility of my degree programme has allowed me to personalise my learning and specialise in modules which interest me. My project supervisors provided technical guidance which helped me learn so much and they were extremely helpful and encouraging. As a result, I hope to pursue a career in the aviation industry, specialising in the failure of aircraft structures and composites.”

#### Ariana Quek

MEng Mechanical Engineering/Aerospace,  
fourth-year Malaysia Campus student



#### Find out more:

[www.southampton.ac.uk/ariana](http://www.southampton.ac.uk/ariana)

# APPLYING AND ACCEPTING AN OFFER

Wherever you are in the world, you can apply directly via our website. We aim to make the application process as easy and quick for you as possible. Once you have received an offer of study from us, follow the instructions below to confirm your place.

## How and when to apply

- Apply directly from our website
- Applications are taken throughout the year for Engineering Foundation Year
- We strongly advise you to apply as early as possible
- Completed undergraduate documents should be emailed to **admissions.malaysia@southampton.ac.uk**
- Completed Foundation Year documents should be emailed to **UoSM.foundation@southampton.ac.uk**

## Step one

To apply to the University of Southampton Malaysia, please complete the application form available at: **www.southampton.ac.uk/my/application**

Partially completed forms cannot be processed and will lead to delays in the consideration of your application. In addition to the fully completed application form, we require the following documents to be submitted. Your application cannot be processed without these documents:

- One academic reference
- Transcripts showing previous academic awards
- Your current academic transcripts or forecast result
- Evidence of your English language qualifications

- A copy of your identity card or passport biographical data page
- Your completed application and documents should be emailed to **admissions.malaysia@southampton.ac.uk**

## Step two

Once we have received your application, an acknowledgement email will be sent to you from the University Admissions office.

## Step three

Your application will be considered by our Admissions team and you will be notified of their decision by email.

## Application deadlines for international students

- Undergraduate programmes (Sept intake): **19 July 2019**
- Engineering Foundation Year (April intake): **15 February 2019**
- Engineering Foundation Year (July intake): **3 May 2019**
- Engineering Foundation Year (Sept intake): **30 June 2019**

## Application deadlines for Malaysian students

- Undergraduate programmes (Sept intake): **16 September 2019**
- Engineering Foundation Year (April intake): **8 April 2019**
- Engineering Foundation Year (July intake): **24 June 2019**
- Engineering Foundation Year (Sept intake): **19 August 2019**



## Entry requirements

We accept a wide variety of international qualifications for entry to our courses that must be accompanied by an English language qualification recognised by the University of Southampton. For the latest information about our academic entry requirements, visit:

- For undergraduate degrees: **www.southampton.ac.uk/my/entry-requirements**
- For Engineering Foundation Year: **www.southampton.ac.uk/my/foundation/about**



## Find out more and apply at:

For the latest information about our English language entry requirements, visit **www.southampton.ac.uk/admissions-language**

Read our Admissions Policy at **www.southampton.ac.uk/admissions-policy**

Apply at **www.southampton.ac.uk/my/apply**

## Accepting an offer

### Step one

To accept your offer to study with at University of Southampton Malaysia, complete the Reply to Offer form sent to you with your offer letter and return it by email to the Admissions team. Engineering Foundation Year please email **UoSM.foundation@southampton.ac.uk**, undergraduate acceptance should be sent to **admissions.malaysia@southampton.ac.uk**.

The form should be returned to this email address no more than 30 days after the date on your offer letter.

### Step two

On receipt of your completed Reply to Offer form, an email will be sent to you from the Admissions team confirming your acceptance.

### Step three

Once you have accepted your unconditional offer or have met the

academic conditions set out in your conditional offer to study at University of Southampton Malaysia, an invoice for a non-refundable deposit of RM1,000 will be sent to you by email. The deposit amount will be deducted from your first semester tuition fees and an official receipt will be issued to you once payment has been received.

### Step four

Once we have received your deposit we will send you the following information;

- Accommodation Information
- Application Pack
- Visa Pack

Deadlines for completing the Visa Pack are:

- Engineering Foundation Year (April Intake): **01 March 2019**
- Engineering Foundation Year (July Intake): **11 May 2019**
- Engineering Foundation Year (Sept Intake): **8 July 2019**

- Undergraduate Programmes (Sept Intake): **26 July 2019**

### Step five

Once we have received your deposit we will send you the Accommodation Information and Applicant Pack. You will receive enrolment and induction information approximately one month prior to the start of your course.



## Find out more

For more details about your course such as module information and course structure, visit

**www.southampton.edu.my**

Or to have specific questions answered:

**T: +607-560 2560 (Malaysia)**

**T: +44 (0)23 8059 9699 (UK)**

**E: marketing.malaysia@southampton.ac.uk**

# FEES AND SCHOLARSHIPS

## Undergraduate Programmes

For undergraduate students the cost of obtaining an engineering degree at our University of Southampton Malaysia (two years in Malaysia and two years in the UK) is around 60 per cent\* of the cost of obtaining the same degree in the UK only. You will also make additional savings on living expenses and accommodation by studying in Malaysia for the first two years rather than only in the UK.

	Fees 2019/20	
	Malaysian students	International students
Years 1 and 2 (in Malaysia)	RM50,200 per annum	RM58,200 per annum
Years 3 and 4 (in the UK)	£20,970 per annum†	£20,970 per annum†

† The fees listed for years 3 and 4 (in the UK) will be subject to a 20% Transition Bursary for all students who successfully progress from year two at our Malaysia Campus to years three and four at our Southampton Campus. The fee for studying in the UK for years 3 and 4 will be £16,776 each year.

Tuition fees for years 1 and 2 are payable in Malaysian Ringgits. Tuition fees for years 3 and 4 are payable in pounds sterling. Fees shown are fixed for the duration of the programme. For the latest information on fees, visit [www.southampton.edu.my/fees](http://www.southampton.edu.my/fees)

## Engineering Foundation Year

The Engineering Foundation Year is a one-year preparatory course, which then leads to a four-year (MEng) degree programme.

	Fees 2019/20
Malaysian students	RM27,200
International students	RM33,100

\* This figure is based on international tuition fees, includes the 20% Transition Bursary and uses the exchange rate £1 = MYR 5.4 as of October 2018. The cost of studying the same degree in the UK (4 years in the UK) is £20,970 per annum.

## Cost of Living

### In Malaysia

If you are unaccompanied, the cost of living in Malaysia (in addition to tuition fees) is usually around RM1,200 – RM1,500 per month.

### In the UK

If you are unaccompanied, the cost of living (in addition to tuition fees) is usually around £9,135 per academic year.

These figures should cover your accommodation, food, daily travel, books, stationery, dissertation preparation and other items.



### Find out more:

[www.southampton.edu.my/fees](http://www.southampton.edu.my/fees)

T: +607-560 2560 (Malaysia)

T: +44 (0)23 8059 9699 (UK)

E: [marketing.malaysia@southampton.ac.uk](mailto:marketing.malaysia@southampton.ac.uk)

All applicants to University of Southampton Malaysia will be eligible for scholarships. These are based on academic excellence and achievement and are open to both Malaysian and international applicants. All scholarships are bond-free.

## Undergraduate Scholarships

**Top Achiever Scholarship:** 100 per cent scholarships are awarded to all students achieving a minimum of 4A\*s in A levels (or 3A\*s and 1 A) or equivalent. The scholarships are a reduction of tuition fees. No separate application is needed, students are automatically considered. These scholarships do not include living expenses, and are applicable to year one entry students and for the first year of study only. Students must complete their degree at the University of Southampton.

**Exceptional Achiever Scholarship:** 60 per cent scholarships are awarded to all students achieving a minimum of 3A\*s in A levels or equivalent. The scholarships are a reduction of tuition fees. They are applicable to year one entry students and for the first year of study only. No separate application is needed, students are automatically considered.

**High Achiever Scholarships:** 25 per cent scholarships are awarded to all students achieving A\*A\*A in A levels or equivalent. The scholarships are a reduction of tuition fees. They are applicable to year one entry students and for the first year of study only. No separate application is needed, students are automatically considered.

**Transition Bursaries:** 20 per cent scholarships are awarded to all students who successfully progress from Year 2 at our Malaysia Campus to Years 3 and 4 at our Southampton Campus. Students must study and complete both years one and two at our Malaysia Campus in order to receive this scholarship. The bursary is a reduction in tuition fees. No separate application is needed, students are automatically considered.

## Foundation Year Scholarships

The University offers a wide range of scholarships to Foundation Year applicants. No separate application is needed, students are automatically considered for all Foundation Year scholarships.

**Top Achievers Scholarships:** 100 per cent scholarships are awarded to all students achieving a minimum of 8A\*s and above in SPM, or 8A\*s and above in O level or equivalent\*.

**50 per cent scholarships** are awarded to all students achieving 11As and above in SPM/6A\*s in O Level\*

**25 per cent scholarships** are awarded to all students achieving 9-10 As in SPM/5A\*s in O level\*.

**10 per cent scholarships** are awarded to all students achieving 5-8 As in SPM/ 4A\*s in O level\*.

\* Must include A in Physics and Mathematics, and minimum B+ in Additional Mathematics.

**Dean's Progression Scholarships:** Scholarships are awarded to all students who successfully progress onto an undergraduate programme at the University of Southampton Malaysia.

- 10 per cent reduction of year one fees to all students with a minimum average of 80 per cent in the Foundation Year.

- 20 per cent reduction of year one fees and guaranteed Summer Internship for students with a minimum average of 85 per cent in Foundation Year.

- 100 per cent reduction of year one fees and guaranteed Summer Internship for students with an average of 90 per cent and above in Foundation Year.

Scholarships do not include living expenses and are a reduction in fees. The scholarships are non-transferable and only apply whilst the recipient remains a registered, full-time, active student at University of Southampton Malaysia for the duration of the programme. Scholarship recipients must complete years 1 & 2 of the Undergraduate programme at the University of Southampton Malaysia after completion of the Engineering Foundation Year. The recipient will need to refund the scholarship amount in full in the event of a change of university.

**External sponsorship bodies** University of Southampton Malaysia applicants are also eligible to apply for external scholarships from:

- Khazanah Watan
- Yayasan Telekom Malaysia
- Yayasan Tenaga Nasional
- Kumpulan Yayasan Sabah
- MAXIS



### Find out more:

[www.southampton.ac.uk/my/scholarships](http://www.southampton.ac.uk/my/scholarships)

T: +607-560 2560 (Malaysia)

T: +44 (0)23 8059 9699 (UK)

E: [marketing.malaysia@southampton.ac.uk](mailto:marketing.malaysia@southampton.ac.uk)

# INTERNSHIPS

We have excellent links with industry and encourage our students to start preparing for their future career by finding an internship. Our students have found their placements to be extremely valuable as they have learned new skills, gained more knowledge, built industrial contacts and improved their confidence.



**Ravivarma Vikneswaren Sridharan**  
MEng Electrical and Electronic  
third year Malaysia Campus Student  
Engineering BP, UK

"I have always been interested in seeing how I can apply the knowledge I obtain in classes and I believe doing an internship provides me with the best platform to do this.

My internship at BP will provide me with the training, supervision and work experience required to work in the Oil and Gas industry.

It will give me an insight into how things are planned, executed and managed as well as giving me the opportunity to pick up key skills used in the workplace environment.

I will use the experience to guide me when making a decision on the subjects to choose in my final semesters of study in Southampton. I believe the knowledge I will gain through my work at BP will improve my judgement, help me make better decisions on my career and give me the edge over other students."



**Find out more:**

[www.southampton.ac.uk/my/internships](http://www.southampton.ac.uk/my/internships)

# YOUR STUDENT SUPPORT

Students from more than 135 different nations currently study with us and our network of university partnerships spans the globe.

## SUPPORT IN MALAYSIA (Years one and two and Foundation Year)

### Meet Us

Visiting the University is a great opportunity to see the campus and find out what it's really like to live and study here. Find out about our Open Days by visiting [www.southampton.ac.uk/my/visitus](http://www.southampton.ac.uk/my/visitus)

### Welcome Programme

We provide support to all new students which includes information about studying and living in Malaysia.

### E-Learning

Students at our Malaysia and Southampton campuses will have access to the same online resources and guidance materials, including information on careers and employment. Our libraries hold some three million books and journals, many in electronic format so you can access them wherever you are.

### Enabling Services

The University of Southampton is committed to providing a range of quality services and support for students with disabilities, health conditions, and specific learning difficulties. These services are available in the UK via face-to-face appointments, on the phone or via Skype. They are also accessible from Malaysia, via Skype. It is important to get in touch with Enabling Services before you come to the UK for year three so any support you need is in place ready for your arrival.

### Pastoral Support

We recognise that university life is not just about your studies. You will be assigned a personal tutor, both in Malaysia and on arrival in Southampton and they can provide help and support on academic and personal issues.

### Transition to UK

We provide comprehensive guidance when you move from our Malaysia Campus to our Southampton Campus for your third year of study. These include a key activities timetable, a buddy scheme and advice on applying for visas and opening bank accounts. For more information, visit [www.southampton.ac.uk/my/transition](http://www.southampton.ac.uk/my/transition)

## SUPPORT IN THE UK (Years three and four)

### Welcome Programme

In September each year our Welcome Programme is designed to help students settle in to life at the University.

### Student Services Centre

Situated at the heart of the Highfield Campus, we are committed to helping you find the support and information that is right for you. We can provide help and advice on a number of subjects including fees, accommodation and financial assistance.

T: +44(0)23 8059 9599  
E: [ssc@southampton.ac.uk](mailto:ssc@southampton.ac.uk)  
<http://www.southampton.ac.uk/ssc>

### Careers and Employability Service

Our support includes careers fairs, work-based learning opportunities and a range of workshops to develop your skills for graduate employment.

### Counselling Service

The Service offers a confidential short-term counselling service for students who would benefit from talking through difficulties impacting on their life or studies.

### Faith and Reflection Centre

The University Faith and Reflection Centre provides opportunities for individuals to maintain and explore their faith and beliefs. Faith facilities on campus include the Faith and Reflection Centre and the Muslim prayer room.

### First Support

The team is the first point of call for students who are experiencing difficulty or are in crisis and is available when you transfer to Southampton.

For more information, visit <https://www.southampton.ac.uk/edusupport/contact.page>

### Students' Union Advice Centre

Independent support is important so the Union's Advice Centre offers free, confidential and impartial advice on matters including student finance, debt management, budgeting, academic issues and housing.

[www.susu.org/advicecentre](http://www.susu.org/advicecentre)

### Student Life

The Student Life Team are dedicated to supporting student wellbeing and enhancing the student experience. Available 24 hours a day, seven days a week, Student Life are based within Halls of Residence and support all University of Southampton students.



**Find out more:**

[www.southampton.edu.my](http://www.southampton.edu.my)

# NEW FACILITIES FOR ELECTRICAL AND ELECTRONIC ENGINEERING STUDENTS

## Multimillion pound laboratory investment, for third and fourth year students

“At Southampton, we offer students a vibrant and transformative education experience, underpinned by our culture of research and enterprise. Within Electronics and Computer Science, we are proud that multimillion pound laboratory investments ensure our students can use the latest technology and facilities to support their degree programmes.

This summer, we will see the development of new state-of-the-art project laboratories to offer our third and fourth year undergraduate and MSc students a dedicated space to work creatively and collaboratively on hardware and software projects. Adding to a recent project to fully refurbish our teaching and computing laboratories, these developments represent an £8m investment in facilities that will prepare students for the industries and enterprise of the future.”

**Professor Paul Lewin**  
Head of Electronics and Computer Science

Through their open design and natural lighting, the laboratories will provide an engaging working environment. Each laboratory is comprised of four complementary areas to facilitate the project life cycle from initial concept through design and testing to a functional prototype. The facilities are underpinned by in-lab support from specialist technicians and academic staff and can accommodate up to 300 students.

Architect's impression of our  
Hardware Projects Laboratory



Find out more:  
<https://www.ecs.soton.ac.uk/labinvestment>

# TERMS AND CONDITIONS

The University's Charter, statutes, regulations and policies are set out in the University Calendar and can be accessed online at [www.calendar.soton.ac.uk](http://www.calendar.soton.ac.uk)

## Terms of use

This prospectus does not constitute an offer or invitation by the University of Southampton and/or USMC Sdn Bhd (both referred to as the "University" or "We" herein) to study at its Southampton or Malaysia campuses. It provides an overview of the University and life at Southampton and Malaysia, along with information about relevant undergraduate programmes available at the time of publication. This is provided for information purposes only. Relevant weblinks are shown throughout. Please also consult the programme information online for further details or for any changes that have appeared since first publication of the prospectus.

The information contained in the prospectus, welcome guides or on our websites is subject to change and may be updated by the University from time to time to reflect intellectual advances in the subject, changing requirements of professional bodies and changes in academic staff members' interests and expertise. Changes may also occur as a result of monitoring and review by the University, external agencies or regulators.

## Programme Validation

Validation is the process by which the University approves its programmes of study. Any taught undergraduate and postgraduate programme leading to a University award, including research degrees with a taught component are required to go through programme validation. The full validation process can be found in our Quality Handbook at [www.southampton.ac.uk/quality](http://www.southampton.ac.uk/quality).

## 1. Change or discontinuance of programmes

As a research-led University we undertake a continuous review of our programmes, services and facilities to ensure quality enhancement and manage our resources. We are also largely funded through public and charitable means and are required to manage these funds in an efficient and cost-effective way for the benefit of the whole of the University community.

This means that your programme can change in the following ways:

- We can change the programme title, make reasonable changes to the timetable, location, number of classes, content or method of delivery of programmes of study and/or examination processes.
- We can make reasonable variations to the content and syllabus of programmes of study (including in relation to placements) for example to alter its aims and intended learning outcomes, credit architecture, programme structure, assessment strategy and progression requirements.
- We can suspend or discontinue programmes of study (for example, because a key member of staff is unwell or leaves the University).
- We can discontinue programmes of study or to combine or merge them with others (for example, because too few students apply to join the programme for it to be viable to run).

However, any revision will be balanced against the requirement that students should receive the educational service expected. The University's procedures for dealing with programme changes and closures can be found in our Quality Handbook at [www.southampton.ac.uk/quality](http://www.southampton.ac.uk/quality).

Applications made to the University should be made based on the latest programme information made available by the University. If you are in receipt of an offer to study at the University and if you have not already accepted our offer to study a programme with the University and this programme changes or closes as set out above, we will write to you to inform you that this offer has been withdrawn by the University.

If you have already accepted an offer to study a programme with the University and this programme changes or closes as set out above but you have not already registered and enrolled with the University, we will contact you to advise you of the change and where we are able to do so, we will make you a new offer to transfer to an equivalent programme for which you are qualified and where places are available within the University. You will be free to accept or reject this offer. If you have already registered and enrolled with the University and you reject the new offer, we will use our reasonable endeavours to teach out the programme on which you are enrolled but we cannot guarantee to do so and you may need to study elsewhere.

## 2. Changes to services or facilities

The University will make available to students such learning support and other services and facilities as it considers appropriate, but may vary what it provides from time to time (for example, the University may consider it desirable to change the way it provides library or IT support).

## 3. Financial or other losses

The University will not be held liable for any direct or indirect financial or other losses or damage arising from such closures, discontinuations, changes to or mergers of any programme of study, service or facility.

Upon acceptance by an applicant of an offer of a place at the University, the relationship between the applicant and the University becomes contractual. When the contract is formed between the student and the University it will last for the relevant academic year only unless the student withdraws from the programme or the programme is terminated.

Please note: the right of a student to withdraw from a programme of study under the provisions set out in paragraph 1 above following a change are in addition to any statutory rights of cancellation that may exist under the laws of Malaysia. In entering into that contract, the terms of the contract will not be enforceable by any person not a party to that contract.

## Force majeure

The University will not be held liable for any loss, damage or expense resulting from any delay, variation or failure in the provision of programmes of study, services or facilities arising from circumstances beyond the University's reasonable control, including (but not limited to) war or threat of war, riot, civil strife, terrorist activity, industrial dispute, natural or nuclear disaster, adverse weather conditions, interruption in power supplies or other services for any reason, boycott and telecommunications failure. In the event that such circumstances beyond the reasonable control of the University arise, it will use all reasonable endeavours to minimise disruption as far as it is practical to do so provided that such endeavours do not undermine the University's Quality assurance requirements.

## Admissions Policy and complaints

The University will operate its admissions in accordance with its Regulations for Admission to Degree Programmes, which can be found in the Calendar at [www.calendar.soton.ac.uk/sectionIV/admissions.html](http://www.calendar.soton.ac.uk/sectionIV/admissions.html).

Applicants may raise complaints related to admissions under the University's regulations governing Complaints from Applicants, which can be found at [www.calendar.soton.ac.uk/sectionIV/complaints-applicants.html](http://www.calendar.soton.ac.uk/sectionIV/complaints-applicants.html). In the first instance complaints will be handled by the Admissions team at University of Southampton Malaysia Campus. Email [admissions.malaysia@soton.ac.uk](mailto:admissions.malaysia@soton.ac.uk)

## Data protection

During the application procedure, the University will be provided with personal information relating to the applicant. An applicant's personal data will be held and processed by the University of Southampton in accordance with the requirements of the Data Protection Act 1998 and by USMC Sdn Bhd in accordance with the requirements of the Personal Data Protection Act 2010.

## © University of Southampton 2018

A copy of this prospectus and the University's current information for students with disabilities and specific learning difficulties can be made available, on request, in alternative formats, such as electronic, large print, Braille or audio, and, in some cases, other languages.

Published and produced by Communications and Marketing.

Photographs courtesy of Jon Banfield, and staff and students of the University

Date of publication: October 2018

## MoHE registration number

DULN006(J)

# HOW TO FIND US

## Malaysia

Our Malaysia Campus is located near the southwestern tip of Malaysia, about four-hours drive south of Malaysia's capital city, Kuala Lumpur.

The campus is located within the EduCity development in a regional city called Iskandar Puteri, Johor. A 305-acre site dedicated to education, EduCity is modelled on the Dubai Knowledge city.

Iskandar Puteri is accessible from the North-South Expressway, which links all major cities on the West Coast of Peninsular Malaysia between Thailand and Singapore. The North-South Expressway is also connected to other major expressways including the Malaysia-Singapore Second Crossing, also known as the Second Link.

EduCity lies within 60 minutes of Singapore Changi International Airport and 30 minutes of Senai International Airport. Central Singapore is approximately a 40-minute drive away.

University of Southampton Malaysia  
(913717-X)  
No. 3, Persiaran Canselor 1,  
Kota Ilmu EduCity,  
79200 Iskandar Puteri, Johor,  
Malaysia  
KPT/JPS/DFT/US/Jo4



### CAMPUS INFORMATION

- University buildings
- Halls of residence

### TRANSPORT INFORMATION

- Airport



**Find out more:**  
[www.southampton.ac.uk/my/campus](http://www.southampton.ac.uk/my/campus)

## UK

Southampton is located just over one hour from central London, on the south coast of England. We are surrounded by areas of natural beauty including the New Forest and the Isle of Wight, and connected to the rest of the UK and Europe through superb road, rail, air and sea links.

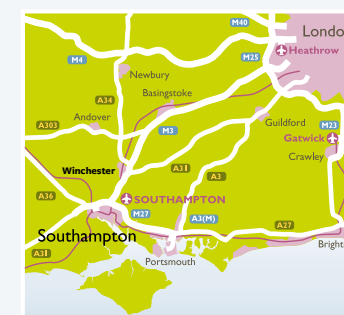
Our Southampton campuses are well connected to the national road network. The M3 motorway links Southampton directly to London.

Southampton Airport is approximately 10 minutes from our Southampton campuses by bus or taxi. There is a full UK domestic service, as well as flights to mainland Europe,

including Schiphol Amsterdam, and the Channel Islands. If you are arriving in the UK via London Gatwick or London Heathrow airports, you can reach Southampton by road, bus, coach and rail.

We run the award-winning unilink bus service that connects our Southampton campuses with all the major transport links in the city. You can buy tickets at the unilink office or on the bus.

Southampton is the cultural and commercial capital of the south coast.



### CAMPUS INFORMATION

- University buildings
- Halls of residence

### TRANSPORT INFORMATION

- Airport
- Ferry terminal
- Railway station
- Coach station



**Find out more:**  
[www.southampton.ac.uk/my/campus](http://www.southampton.ac.uk/my/campus)