

Faculty of Engineering and Information Sciences

Saravanan (Saran) Nagarathinam – International Manager



UNIVERSITY OF WOLLONGONG AUSTRALIA

November 2017

University at a glance

32,953 total student enrolment

6,143 international students

147

countries where UOW alumni live

9

Australian campuses

138,594 UOW alumni

304 degrees on offer

78.3% Academic staff with PhDs

7internationalteaching locations





A university city



- More than 160 nationalities represented at our Wollongong campus
- Religious services including on-campus Muslim Prayer Space, the Omar Mosque, Nan Tien Buddhist Temple and Sri Venkateshwara Hindu Temple
- 90 minutes from the Sydney CBD
- Third largest city in New South Wales
- 17 patrolled surf beaches
- 11 national parks within 50km

Campus Life modern teaching facilities and beautiful study spaces



EAT WELL UOW students can choose between eight cafes, the popular UniBar and the IGA supermarket, which are conveniently located throughout the campus.



GET ACTIVE Students can keep fit in the UOW gym, the Olympic-sized swimming pool, or with any of the more than 60 student sporting teams including cricket and rugby.



JOIN THE CLUB

Students can get involved and find likeminded people through UOW's 120 student clubs and societies. If none of the existing ones are right, it's easy to start a new one.



FACILITIES

Our students have easy access to extensive library resources, world-class labs and science teaching facilities right on campus.



Transport in Wollongong CONVENIENT TRANSPORT OPTIONS



BICYCLE

UOW has more than 800 bike racks for secure and convenient bike parking. There are always secondhand bikes for sale around campus.



TRAIN

North Wollongong Station is a 15-minute walk or a short free shuttle bus ride from our main campus.

BUS

Wollongong is well connected with city buses going to all its suburbs. Free 'city loop' buses run all day and into the night, linking UOW with the city centre, trains and shopping district.



CAR

UOW runs a carpooling program, so if you have two or more friends in your car, you get free parking on campus.



Student support services

PERSONAL

- Student Support Advisors
- UOW Wellbeing: Maintain a happy and healthy life balance (The Lounge @ UOW)
- Counselling: Free and Confidential Counselling Services.
- Campus Health: GPs, dentists, Dietitians on campus
- Other Services such as Legal Advice, Financial counselling and disability services.

ACADEMIC AND SOCIAL

- Peer Assisted Study Sessions (PASS)
- Technology-rich learning
- Award winning Library
- English Conversation groups
- 120+Clubs and Societies
- Onsite sports facilities Gym, Olympic Sized Swimming Pool, Sporting Fields
- Free City Loop Buses





Live on campus

- Award-winning academic and wellbeing support
- Choice of seven residences on or near campus, or in the CBD
- Cost includes high-speed internet, electricity, water, furniture, security and support
- Full calendar of social, cultural and sporting events
- Brand new residence opening on campus in 2018







A WELCOMING COMMUNITY WITH SUPPORT AT YOUR DOOR





South Western Sydney Campus



UOW has a vision to create a contemporary city campus in Liverpool, one of the fastest growing urban areas in Australia.

UNDERGRADUATE COURSES AVAILABLE

- Bachelor of Arts (History, Sociology)
- Bachelor of Arts Bachelor of Laws
- Bachelor of Business
- Bachelor of Business Information Systems
- Bachelor of Business Bachelor of Laws
- Bachelor of Computer Science
- Bachelor of Information Technology
- Bachelor of Commerce (Mark or Mgmt) 2018 (Subject to approval)

POSTGRADUATE COURSES AVAILABLE

- Graduate Certificate in Health Leadership and Management
- Master of Health Leadership and Management
- Master of Nursing International
- Master of Social Work (Qualifying)

UOW COLLEGE PROGRAMS

- Diploma of Business
- Diploma of Information Technology
- Diploma of Legal Services
- English for Tertiary Studies (Pending Approval)



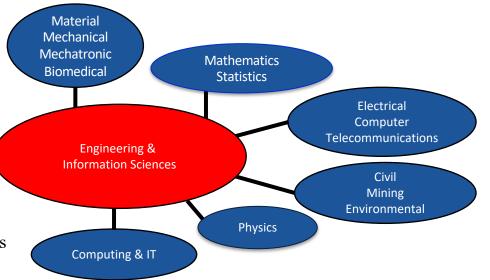
Faculty of Engineering & Information Sciences 6 SYNERGISTIC SCHOOLS

- School of Computer Science and IT
- School of Electrical, Computer and Telecommunications Engineering
- School of Mathematics and Applied Statistics
- School of Civil, Mining and Environmental Engineering
- School of Physics
- School of Mechanical, Materials, Mechatronics and Biomedical Engineering

TOP 1 % Research quality



ENGINEERING ASSOCIATE





Our achievements

RANKED 96TH IN THE WORLD AND 7TH IN AUSTRALIA

In the 2018 Times Higher Education World University Rankings for "Engineering and Technology"

RANKED 1ST IN AUSTRALIA In the QILT Rankings for Engineering

RANKED 2ND IN NSW / ACT In the QILT Rankings for: Computing and Information Systems Mathematics and Statistics Physics





Faculty discipline based rankings

TOP 50 IN THE WORLD Mineral and Mining Engineering

TOP 150 IN THE WORLD Civil and Structural Engineering Materials Science

TOP 200 IN THE WORLD Mechanical Engineering

TOP 250 IN THE WORLD Electrical & Electronic Engineering Computer Science & Information Systems





*2017 QS world rankings by subject



Faculty of Engineering & Information Sciences (EIS) is part of

the "Group of Eight Engineering Associates"

The **Group of Eight** (Go8) is a coalition of research-intensive Australian Universities and UOW is a member of the Engineering Associates.

Recent EIS Research Grants:-

UOW researchers win \$6 million for Rail engineering training centre http://media.uow.edu.au/releases/UOW233553.html

UOW researchers win \$10 million in Australian Research Council funding http://media.uow.edu.au/releases/UOW223611.html



English Language Requirement for EIS courses

Post Graduate (PG) courses:

	Overall	Reading	Writing	Listening	Speaking
IELTS	6.5	6	6	6	6
TOEFL	88	20	20	20	20
PTE	64	59	59	59	59

Undergraduate (UG) courses:

	Overall	Reading	Writing	Listening	Speaking
IELTS	6.0	6	6	6	6
TOEFL	79	18	18	18	18
PTE	57	57	57	50	50



Undergraduate Courses



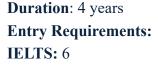
UNIVERSITY OF WOLLONGONG AUSTRALIA

Bachelor of Engineering (Honours)

COURSE INFORMATION

A four-year degree that allows students to specialise in: Biomedical Engineering Civil Engineering Computer Engineering Environmental Engineering Materials Engineering Mechanical Engineering Mechatronic Engineering Mining Engineering Telecommunications Engineering

Double Majors available: Civil - Environmental Civil – Mining Mechanical – Materials Mechanical – Mining Mining – Environmental Mining- Materials



Location: Wollongong

Course Structure: All students complete a Professional Practice subject and a dissertation project (minor research thesis).

These majors are all accredited by Engineers Australia They also have Washington Accord status



ENGINEERS AUSTRALIA

Bachelor of Computer Science

COURSE INFORMATION

A three-year degree that allows students to specialise in the following majors:

Big Data

Cyber Security Digital Systems Security Game and Mobile Development Software Engineering

This degree and majors are accredited by the Australian Computer Society (ACS) at the Professional Level



Duration: 3 yearsIELTS: 6Location: WollongongCourse Structure: Common first year of study and then students choose a major in second year.



Bachelor of Information Technology

COURSE INFORMATION

A three-year degree that allows students to specialise in the following majors:

eBusiness

Network Design and Management Social and Digital Innovation Web Design and Development

Bachelor of Business Information Systems

A three-year degree that allows students to specialise in both IT and business disciplines.

These degrees and majors are accredited by the Australian Computer Society (ACS) at the Professional Level



Duration: 3 years **IELTS: 6 Location**: Wollongong **Course Structure**: All students complete a Professional Practice subject and a dissertation project (minor research thesis).



Bachelor of Medical Radiation Physics

COURSE INFORMATION

A three-year degree that allows students to study nuclear radiation therapy and treatments.

UOW currently graduates more than 50% of medical radiation physicists working across hospitals and research centres in the state of New South Wales.

Students who wish to work as medical radiation physicists alongside hospital radiation oncologists will need to continue to the Advanced Honours program and Higher Degree Research programs. Duration: 3/4 years IELTS: 6 Location: Wollongong Advanced Course Structure: 4 years and includes a substantial research thesis.

This degree conforms to membership of the Australian Institute of Physics and the Australasian College of Physical Scientists and Engineers in Medicine.







Bachelor of Science and Bachelor of Mathematics

COURSE INFORMATION

Bachelor of Science

A three-year or four-year Advanced degree that allows students to specialise in the following majors:

Atmospheric Science Biomolecular Physics Nuclear Science and Technology Physics

This degree conforms to membership of the Australian Institute of Physics.

Bachelor of Mathematics

majors include: Mathematics Applied Statistics Mathematics and Statistics Duration: 3 or 4 years IELTS: 6 Location: Wollongong Advanced Course Structure: 4 years includes a substantial research thesis.





Bachelor of Mathematics and Finance (Honours)

COURSE INFORMATION

A four-year degree that allows students to specialise in the following majors: Financial Planning Mathematical Economics Quantitative Corporate Finance and Investment Quantitative and Computational Trading Risk Management and Insurance

Duration: 4 years IELTS: 6 Location: Wollongong

This degree is accredited by the Australian Mathematical Society

Completion of the degree provides 'points' toward membership of the Financial Services Institute of Australasia.





Postgraduate Courses



UNIVERSITY OF WOLLONGONG AUSTRALIA

Master of Engineering

COURSE INFORMATION

A two-year course that allows students to specialise in:

Civil Engineering Computer Engineering Electrical Engineering Environmental Engineering Innovative Manufacturing Materials Engineering Mechanical Engineering Mechatronic Engineering Mining Engineering Telecommunications Engineering

These majors are accredited by Engineers Australia



AUSTRALIA

Students can also specialise in: Asset Management Management These two majors are currently not accredited by Engineers Australia.

Duration: 2 years

Entry Requirements: Recognised four-year Bachelor of Engineering degree with an equivalent average mark of 60%

IELTS 6.5

Location: Wollongong

Course Structure: All students complete a Professional Practice subject and a dissertation project (minor research thesis).



Master of Engineering Management

COURSE INFORMATION

Course Structure: A one-year course with six core subjects:

Engineering Logistics Innovation and Design Engineering Project Management Modelling of Engineering Management Systems Strategic Management for Engineers and Technologists Financial Management for Engineered Assets

Students also complete two elective subjects in Engineering or Business

Duration: 1 year

Entry Requirements: Work experience in engineering and a recognised four-year Bachelor of Engineering degree with an equivalent average mark of 60% IELTS 6.5

Location: Wollongong



Master of Information and Communication Technology Advanced

COURSE INFORMATION

A two-year course that allows graduates and IT professionals to learn more about organisational, economic, regulatory frameworks governing IT and how to manage these.

This degree has <u>Advanced</u> Professional Accreditation with the Australian Computer Society (ACS).



This is the first degree in Australia to be awarded this advanced accreditation.

Duration: 2 years

Entry Requirements: Recognised Bachelor degree in IT and work experience in the IT sector

IELTS 6.5

Location: Wollongong

Course Structure: Four foundation subjects and six subjects for a major, plus six elective subjects. All students complete a research or professional project.



Master of Health Informatics

COURSE INFORMATION

A two-year course designed to provide IT professionals with knowledge about Health Informatics and health professionals with a better understanding of IT in their sector: IT professionals study: Social Determinants of Health Health Promotion Public Health Policy **Contemporary Public Health Issues** Health professionals study: Big Data Management System Analysis Python Programming Data Management and Security

This degree is accredited by the Australian Computer Society (ACS)



Duration: 2 years

Entry Requirements: Recognised Bachelor degree with an equivalent average mark of 60% in any area related to IT or Health

IELTS 6.5

Location: Wollongong

Course Structure: Five core subjects, plus subjects from either IT or Health stream and electives.

All students complete a research or professional project.



Master of Computer Science

COURSE INFORMATION

A two-year course that allows students to specialise in:

Intelligent Systems Machine Learning and Big Data Network and Information Security Software Engineering

This degree and majors are accredited by the Australian Computer Society (ACS)



Duration: 2 years

Entry Requirements: Recognised Bachelor degree with an equivalent average mark of 60% in any area IELTS 6.5

Location: Wollongong

Course Structure: Four foundation subjects and six subjects for a major, plus six elective subjects. All students complete a research or professional project.



Master of Information Technology

COURSE INFORMATION

Suitable for non IT graduates. A two-year course with core subjects in: Big Data Management Information Design and Content Management Python Programming Web Programming Research Methodology Systems Development Methodology

Students can then specialise in: IT Strategic Management Enterprise Networking Information Systems Development Or complete eight electives from the schedule. This degree and majors are accredited by the Australian Computer Society (ACS)

professional project.



Duration: 2 years
Entry Requirements: Recognised Bachelor degree with an equivalent average mark of 60% in any area
IELTS 6.5
Location: Wollongong
Course Structure: All students complete a research or

UNIVERSITY OF WOLLONGONG AUSTRALIA

Graduate Certificate in Computing Pathway to Computer Science and IT Degrees

The Graduate Certificate in Computing provides pathways into UOW's:

Master of Computer Science or Master of Information Technology

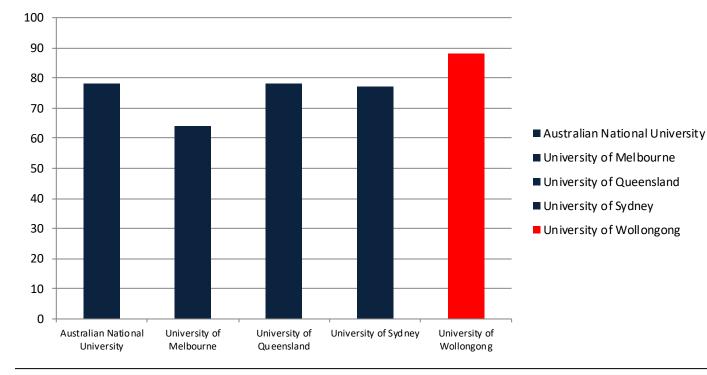
Students receive 24 credit points (four subjects of Advanced Standing into the Master programs)

Grad Cert Computing Duration: 6 months Master Duration: 1.5 years Entry Requirements: Recognised Bachelor degree with a duration of at least three years of fulltime study IELTS 6.0 Location: Wollongong Course Structure: Four foundation. All students complete a research or professional project.



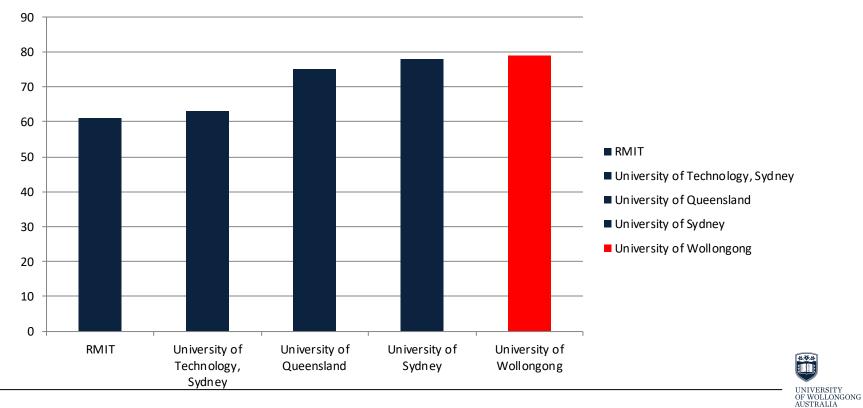
1st in Australia for Engineering

Australian University Comparison - Engineering Full Time Employment





Australian University Comparison – Computing & Information Systems Full Time Employment



Our alumni







COOPER LEES

UOW Computer Engineer Alumni Production Engineer at Facebook

DR ALEX ZELINSKY

UOW Engineering Alumni Chief Defence Scientist of Australia

SUNIL CHANDRA

UOW Computer Engineering Alumni Vice President at Google



Industry Links

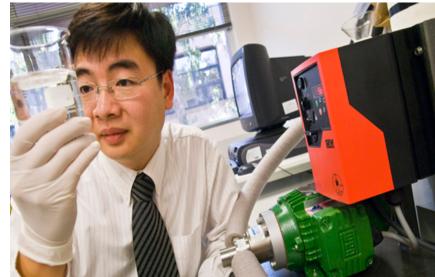
- Major Australian and International Firms recruit graduates from the University
- Constant engagement in industry research, within Australia and Internationally

Roads & Maritime

CormonwealthBank







Innovative research turning food waste into energy

- by UOW Professor Long Nghiem

http://media.uow.edu.au/releases/UOW232243.html



33

Industry engagement with NASA

Faculty's Centre for Medical Radiation Physics (CMRP) won a prestigious research grant from NASA - to develop space qualified instrument to assess radiobiological effects on humans during long-term space missions





DR LEROY CHIAO Former NASA astronaut visits UOW He spent 6 months on the International Space Station





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