Expand Your Learning Journey
Do Something Really Different!
Go to Asia!

Professor Victor Shim
Vice-Dean (External Relations & Outreach)
Faculty of Engineering
National University of Singapore
Singapore? Where’s that?
about singapore

• Compact and well-populated tropical island
• Land area - 719km² (about 45% the size of Greater London)
• Total population: 5.6 million (London: 8.6m)
• Multi-ethnic, multi-cultural society
• Large international community (about 1.6 million)
about singapore

• **English is an official language, commonly and widely spoken** (accents do vary)

• British colonial heritage is evident – road/building names, education system, power supply voltage, etc.

**EASIEST INTRODUCTION TO ASIA!**
about singapore

- Small island but packed with activities!
  - Vibrant night life
  - Major sporting events
  - Concerts
  - and lots more…

- Safe - even late at night; low crime rate
about singapore

- Well-organised, efficient; public transportation is easy to use and very affordable
  - Bus and subway fares range from S$0.78 to S$2.70 per trip (~£0.46 - £1.59)

- Generally high standard of living
  - Highest-ranking Asian city in the 2017 Quality of Living Worldwide City Rankings survey by Mercer
  - Voted best place in the world to live and work by expats surveyed by HSBC Expat Explorer 2016
some interesting facts

- One of the busiest ports in the world - a ship arrives/departs every 2-3 mins
- One of the world's major oil refining and distribution centres (we don't have any oil, so we help others handle theirs!)
- One of the world’s largest private banking centres
- Manufactures 40% of world’s hard disc media
- Leading hub in Asia for many industries - e.g. aviation, infrastructure, water, logistics
- One of the best countries for startups and entrepreneurship

Not too bad for a little red dot!
why go to NUS?

• Learn Engineering with an Asian perspective within an Asian environment

• Experience a flexible and broad-based program – the 16 faculties/schools at NUS offer a wide-range of cross-faculty modules

• Be immersed in a highly multi-cultural environment (over 37,000 students from 100 countries)

• Be strategically placed to discover and learn first-hand about Asia
  - Get insights into China/India/SE Asia from a single location
  - Prepare yourself for possible future opportunities in Asia
history of nus

• 1905 Founded as the Straits Settlements and Federated Malay States Government Medical School
• 1913 Re-named King Edward VII Medical School
• 1928 Raffles College
• 1949 University of Malaya (UM)
• 1955 Dept of Engineering established in UM
• 1962 University of Singapore
• 1980 National University of Singapore
Profile of nus engineering

- Undergraduates: ~6,657 [~28,630 in NUS]
- Graduate students: ~2,500 [~10,000]
- Academic staff: ~334 [~2,448]

- 4-year B.Eng. Degree Programmes
  - accredited internationally (e.g. Washington Accord), recognised as equivalent to the UK MEng degree
comprehensive range of engineering programmes

- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Engineering & Technology Management
- Environmental Engineering
- Industrial & Systems Engineering
- Materials Science & Engineering
- Mechanical Engineering
how others regard us

Times Higher Education World Rankings 2018

22nd Worldwide
(Ranked 24th in 2017)
(Ranked 26th in 2016)

1st ASIA
(For 3rd Consecutive Year)
how others regard us

World University Rankings 2017 conducted by the Quacquarelli Symonds (QS) Ltd

5th civil engineering
8th chemical engineering
8th materials science
12th electrical engineering
15th mechanical engineering

NUS Engineering
academic calendar

• **Two semesters**
  - each semester: 13 weeks of instruction, followed by 2 weeks of exams

• **Semester 1 (6 Aug – 8 Dec 2018)**
  - Exams (24 Nov – 8 Dec 2018)
  - Vacation (9 Dec 2018 – 13 Jan 2019)

• **Semester 2 (14 Jan – 11 May 2019)**
  - Exams (27 Apr – 11 May 2019)
  - Vacation (12 May – 4 Aug 2019)
accommodation

• On-campus accommodation
  - Room rates range from S$75 - S$200 (£44- £118) per week
  - NUS will do its best to assign on-campus housing to exchange students
rest and relax (we do that too)

• More than 100 student societies, interest groups and clubs to match your passions

• Campus sports facilities: Olympic-size pools, tennis courts, archery range, gym, rock climbing wall, basketball courts, etc.
explore singapore ...

Fabulous Food; Easy on the Wallet

Some local favorites

Char Kway Teow
Chicken Rice
Mee Rebus
Satay
Carrot Cake
Laksa
Roti Prata
Chili Crab
explore singapore ...

2017 Michelin Guide

1-Star Restaurants
30

2-Star Restaurants
7

3-Star Restaurants
1

Michelin Bib Gourmand Awards
Great Value under S$45 (£25)
30
explore singapore ...

Cheapest Michelin-Starred Eateries!

Pork Noodles - S$5 (£2.80)
Soya Sauce Chicken Rice - S$2 (£1.20)
explore singapore ...

- Gardens by the Bay
- Singapore Zoo
- Chek Jawa Wetland
- Indoor Flying
- S.E.A. Aquarium
- Adventure Cove Waterpark
- Tree Top Walk at MacRitchie
beyond singapore ...

Angkor Wat - Cambodia

Thailand

China

Hong Kong

Taiwan

Philippines

Halong Bay - Vietnam

Cambodia

Malaysia

Australia

SINGAPORE

Bali
exchange opportunities

- student exchange programme
  - Opportunity to spend a year at NUS
  - Available to Aero Eng, ChE, EE, BioE and ME students
- If you’re interested in research, consider the Undergraduate Research Opportunities Programme (UROP) which can be done during regular semesters

Engineering exchange web site:
https://www.eng.nus.edu.sg/exchange-students/student-exchange-programmes/

Shortened Url: goo.gl/KGtzGw
nus modules taken by imperial students

Chemical Engineering Modules

- Advanced Transport Phenomena
- Chemical & Biochemical Process Modelling
- Chemical & Bio-Catalysis
- Chemical Kinetics and Reactor Design
- Data Based Process Characterisation
- Enzyme Technology
- Fluid-Solid Systems
- Optimisation of Chemical Processes

- Particle Technology
- Petroleum Refining
- Pinch Analysis & Process Integration
- Polymer Engineering
- Process Health, Safety and Environment
- Process Modelling and Numerical Simulation
- Separation Process
nus modules taken by imperial students

**Biomedical Engrg Modules**
- Cellular Bioengrg
- Electrophysiology
- Musculoskeletal Biomechanics
- Principles of Tissue Engrg
- Rehabilitation Engrg

**Civil Engrg Modules**
- Arctic Engineering
- Linear Finite Element Analysis

**Industrial & Sys Engrg Modules**
- Operations Research 1 and 2

**Electrical Engrg Modules**
- B.Eng Dissertation (final-year project)
- Computer Vision
- Digital Control System
- HF Techniques
- Introduction to Computer Vision & Image Processing
- Random Signals

**Engrg Tech Mgmt Module**
- Engrg Product Development
- Techlaunch – Experiential Entrepreneurship
nus modules taken by imperial students

Mechanical Engineering

- Aerodynamics & Propulsion
- Aircraft Performance, Stability and Control
- Automation
- Automotive Body & Chassis Engineering
- Automobile Design & Engineering
- B.Eng. Dissertation (final-year project)
- Computational Methods in Fluid Mechanics
- Design for Mfg and Assembly
- Energy Conversion Processes
- Energy & Thermal Systems
- Finite Element Analysis
- Functional Materials & Devices
- Industrial Heat Transfer
- Internal Combustion Engines
- Introduction to Aeroelasticity
- Manufacturing Processes
- Materials for Engineers
- Materials in Engineering Design
- Mechanics of Solids
- Plates & Shells
- Robot Kinematics, Dynamics & Control
- Thermal Engineering of Materials
- Vehicle Dynamics
- Vibration Theory and Applications
nus modules taken by imperial students

Modules Offered by Other NUS Faculties

• Arabic (Arts & Social Sciences)
• Chinese (Arts & Social Sciences)
• Fundamentals of Petroleum Exploration (Arts & Social Sciences)
• Macroeconomics Analysis I (Arts & Social Sciences)
• Principles of Economics (Arts & Social Sciences)
• Design & Analysis of Algorithms (Computing)
• Finite Element Methods (Science)
• Information Theory (Computing)
• Mathematical Finance (Science)
• Mathematical Modelling (Science)
• Programming Methodology (Computing)
I was surprised by how green and friendly the city is. Public transport is fantastic, making it possible to visit beautiful spots spread over the whole island and trying authentic dishes from various cuisines. I was even invited by my host for a traditional mid-autumn family dinner with mooncakes. The exchange in Singapore is an extraordinary opportunity to closely experience things that used to be very distant to me.

I love the food, the mix of religions in Singapore, the different atmospheres in the city from Chinatown to Kampong Glam to Marina Bay. I try to take advantage of all the opportunities here at NUS, for example, a typical after school break in Singapore is surfing in Sentosa, which is very exotic for a European student!

I very much enjoy the community feel of NUS and of Singapore, and the food scene is a lot better and more diverse than London. I also really enjoy the weather and being so close to other exciting countries in Southeast Asia makes travelling very convenient and affordable.

Being able to choose courses freely has given me the opportunity to explore a lot of interesting subjects beyond the usual bounds of my degree in the UK. I've especially enjoyed taking part in an experiential learning module which connects engineering to real life market applications.
other UK students at NUS

Definitely go for the NUS exchange, it will give you a very high level of education but will also give you a whole load of experience which you can't get otherwise.

Davendra Dinesh Dhoru
Cambridge University

I heard stories of how NUS students mug for good grades and I was terrified as an incoming exchanger. The truth is that NUS students are vampires who never sleep! There are so many events and unique activities such as dragon boating and bike hiking within NUS. My experience in NUS counts as one of my happiest days.

Lin Jiehao
University College London

Singapore has lived up to its international reputation for being a modern, clean and safe city. NUS is incredibly modern and the facilities are superb. The physical campus is larger and requires buses to get around, With e-scooters, NUS’s modern take on transport is very exciting. I have really enjoyed my courses in NUS and being able to select courses which match my interests very closely and the content has been really interesting.

Gus Neate
Oxford University

One of the best things about studying at NUS is the opportunity to meet people from a variety of different backgrounds and the opportunity to explore both Singapore and neighbouring countries, studying at one of the best universities in the world is just an added bonus!

Chloe Dalziel
University of Glasgow
Excited about adding a different and enriching dimension to university life?
Engineering at NUS
... think about it.
End of presentation
Thanks!