



***Presented by: Prof Er Meng Hwa
Vice President (International Affairs)***

Global E3 2014 Annual Meeting
will be in **SINGAPORE**

WELCOME 欢迎

About Nanyang Technological University

NTU – A *Fast-rising University*

- Ranked 47th in QS World University Rankings 2012/2013
 - **First time ever in Top-50**
 - Quantum leap from 58th (2011) & 74th (2010)
 - **Jump of 27 places over 2 years**
 - Fastest rising university in Top-50
 - Youngest university in Top-100
 - **Ranked 9th in Asia among Top-100**
- Ranked 86th in Times Higher Education (THE) World University Rankings 2012/2013
 - Quantum leap from 169th (2011)
 - **Unprecedented jump of 83 places**
 - **Ranked 11th in Asia among Top-100**



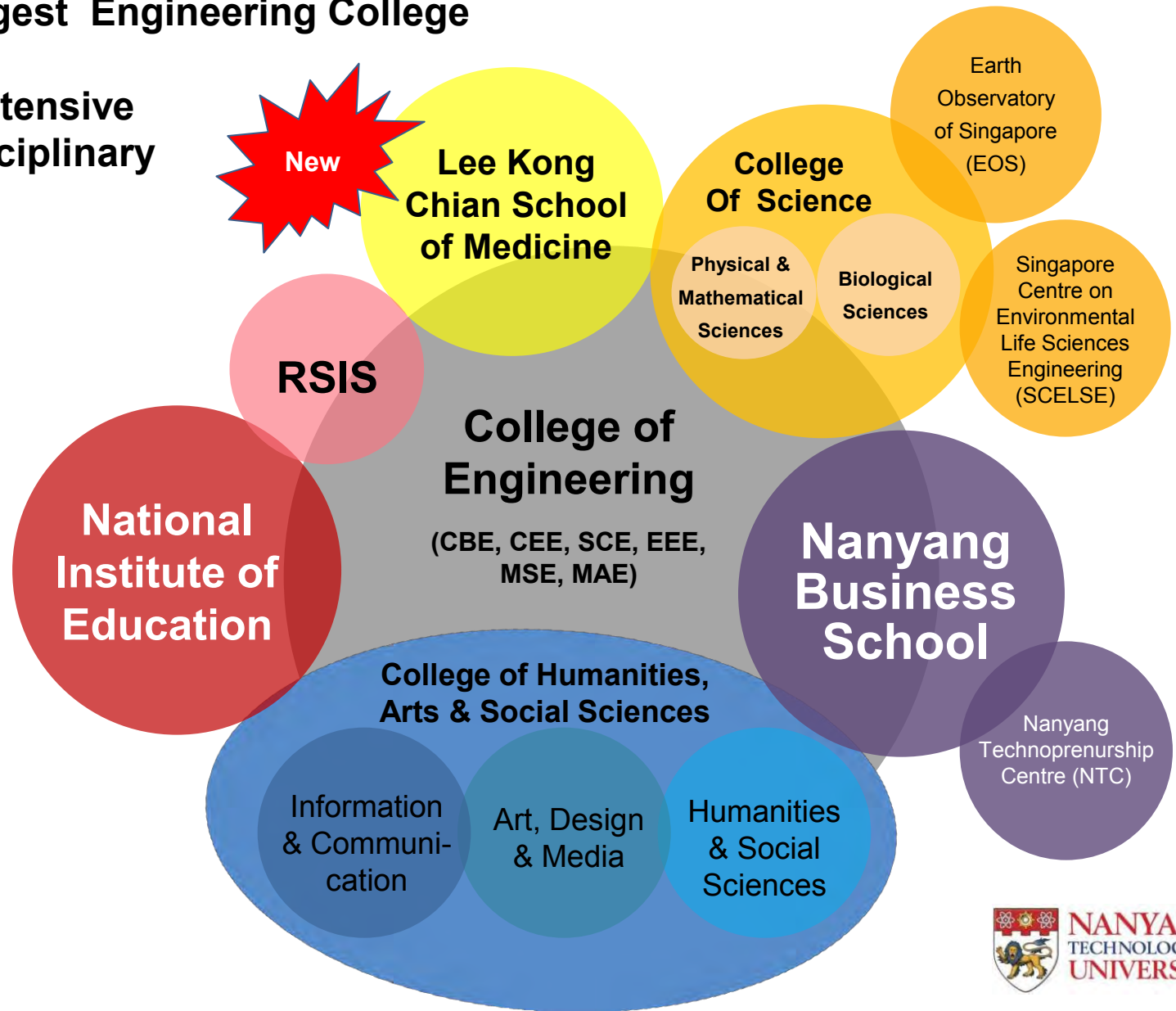
Basic Facts & Figures

- Total full-time student population: ~33,000
 - ~23,500 undergraduates
 - ~9,500 graduate students
- International students:
 - 19% of undergrads
 - 64% of grads (~77% excluding Graduate Diplomas)
- **Total staff strength: ~6,200**
 - ~1,400 faculty (including visiting faculty), with 800 international faculty
→ ~65% of faculty population
 - ~2,100 research staff



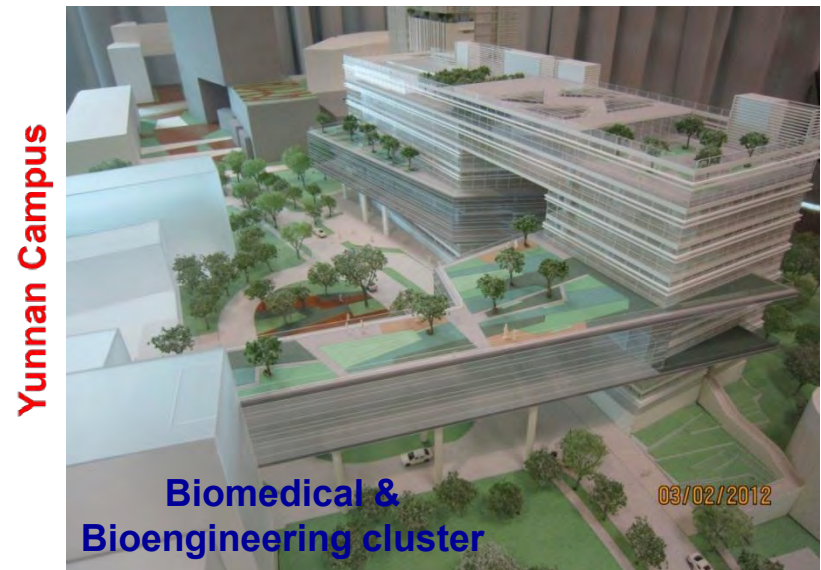
University Structure Overview

- World's biggest Engineering College
- Research-intensive and interdisciplinary



Lee Kong Chian School of Medicine

- Partnership between NTU & Imperial College London
- Received donation of S\$400m from Lee Foundation & with Government matching – **biggest ever in Singapore**
- **5-year joint MBBS medical degree programme**
- Tan Tock Seng Hospital/NHG primary clinical partner
- **First intake in AY2013: 50 students**



NTU's International Profile

- Ranked 47th in QS World University Rankings 2012
- Ranked 4th in QS World University Rankings 2012 in “Top 50/Under 50” universities category
- Ranked 17th among Asian universities, making NTU one of the world’s fastest-rising and Asia’s fastest (QS)
- Ranked 7th in the world in international faculty (QS)
- 33,000 students from more than 70 countries
- 19% international undergraduates
- 64% international post-graduates
- 65% international faculty from 70 countries worldwide
- More than 50% of undergraduates with overseas exposure before graduation
- More than 50 joint programmes with more than 150 international institutes of higher education from more than 25 countries
- Over 400 institution & industry partners from over 45 countries
- More than 700 active research collaborations with more than 200 International institutions/industry partners.
- 40 Overseas-based Alumni Associations
- More than 169,000 alumni from more than 121 countries

Yunnan Garden Residential Campus

Expansion – 8 New Halls of Residence



Development of New Infrastructure @ NTU

- NTU investing >S\$1.2 billion in new infrastructure
 - Halls of residence for students
 - Experimental Medicine building
 - Learning hubs
 - Academic block
 - Restaurants, cafes, etc
 - Plans for a MRT connection



**Vibrant university “village”
in a tropical garden**

A Research-Intensive University

Significant Transformation Since 2005 – Qualitative & Quantitative Expansion

	2005	2012
Student enrolment	26,000	33,000
UG enrolment	18,400	23,500
Top-15% A-level students (with 3As) acceptance	11%	25%
PhD enrolment	1,662	3,300
Competitive research grants	S\$82m	S\$371m
No. of FT faculty	900	1,200
No. of research staff	810	2,100
Publications per FT faculty	1.9	2.8
Incremental citations per FT faculty	11.0	51.5
Citations per publication	1.98 (2001-2005)	5.46 (2008-2012)
No. patents granted	72	276

Steps to Achieving Excellence – *Since 2006*

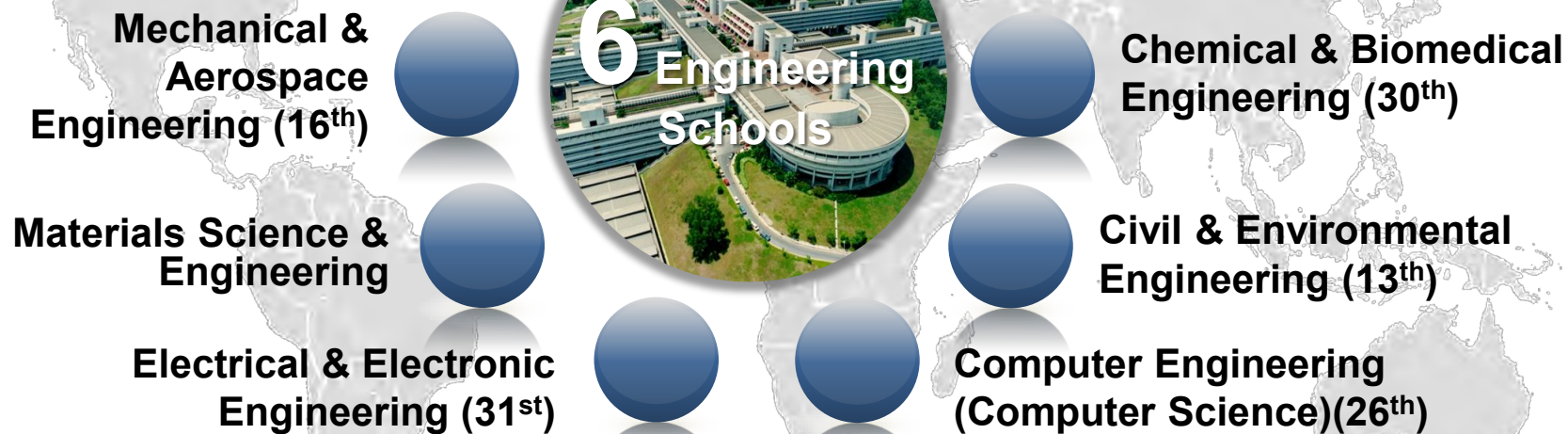
- 1) Having a Government committed to research & higher education
- 2) Restructuring the university including management
- 3) Releasing human potential
- 4) Emphasising research
- 5) Developing a strategic interdisciplinary approach
- 6) Developing strong international partnerships
- 7) Collaborating with Industry
- 8) Evolving from a teaching culture to learning culture
- 9) Reforming administration



About College of Engineering

College of Engineering (CoE)

THE WORLD'S LARGEST ENGINEERING COLLEGE (28TH)



College of Engineering (CoE)

Organisation Structure



**Prof
Janie Fouke**
Dean
College of
Engineering



**Prof
Chan Bee Eng
Mary**
Acting Chair
School of
Chemical &
Biomedical
Engineering



**Prof
Soh Chee
Kiong**
Acting Chair
School of Civil
&
Environmental
Engineering



**Prof
Srikanthan
Thambipillai**
Chair
School of
Computer
Engineering



**Prof
Cheng Tee
Hiang**
Acting Chair
School of
Electrical &
Electronic
Engineering

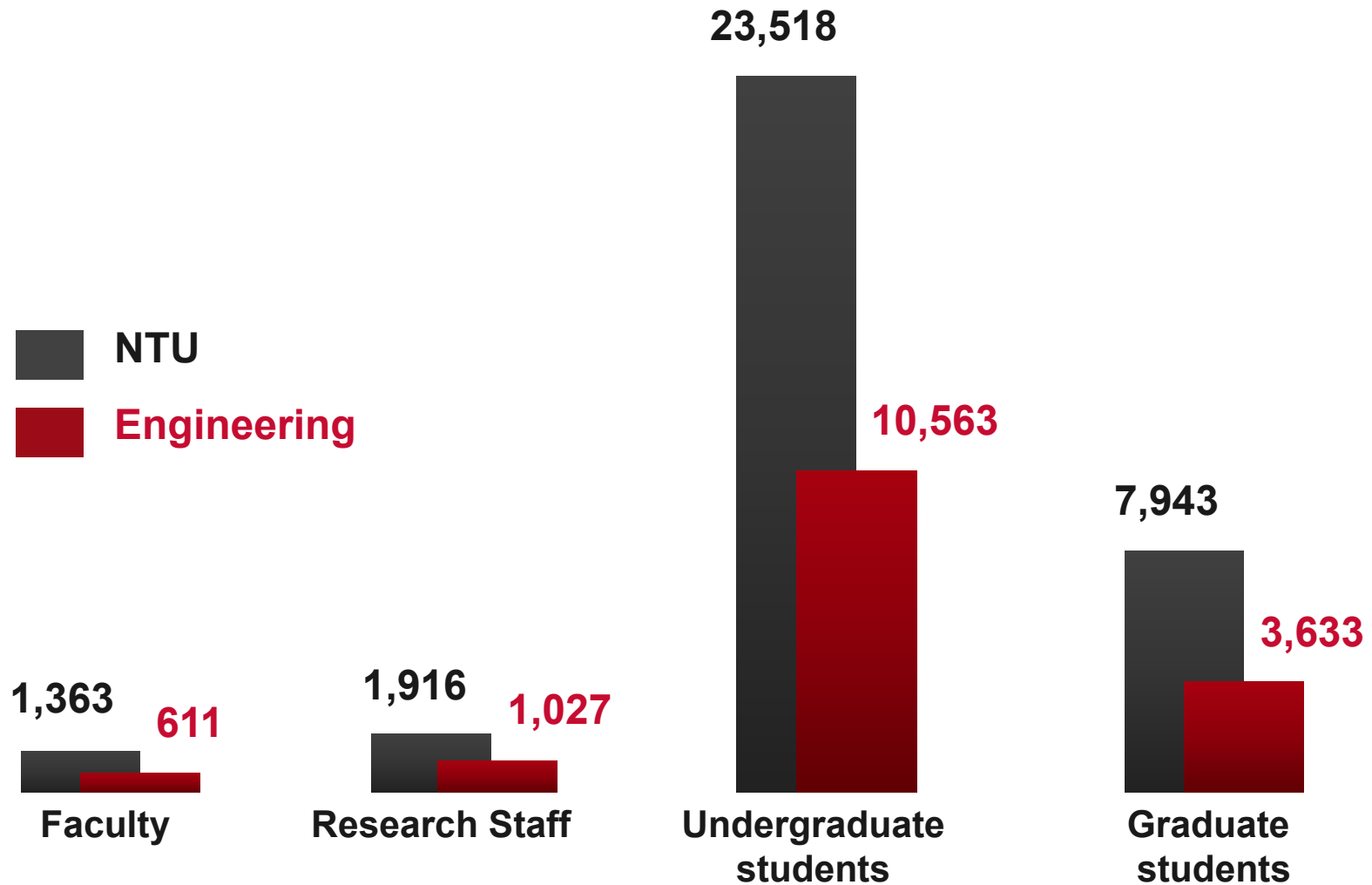


**Prof
Prof Subbu S
Venkatraman**
Chair
School of
Materials
Science &
Engineering



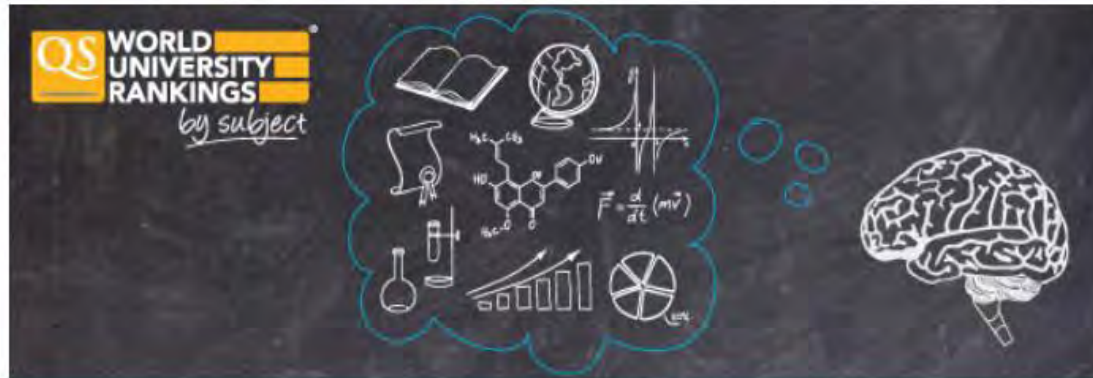
**Prof
Chua Chee Kai**
Chair
School of
Mechanical &
Aerospace
Engineering

Facts & Figures



NTU Engineering in QS World University Rankings 2013 by Subject

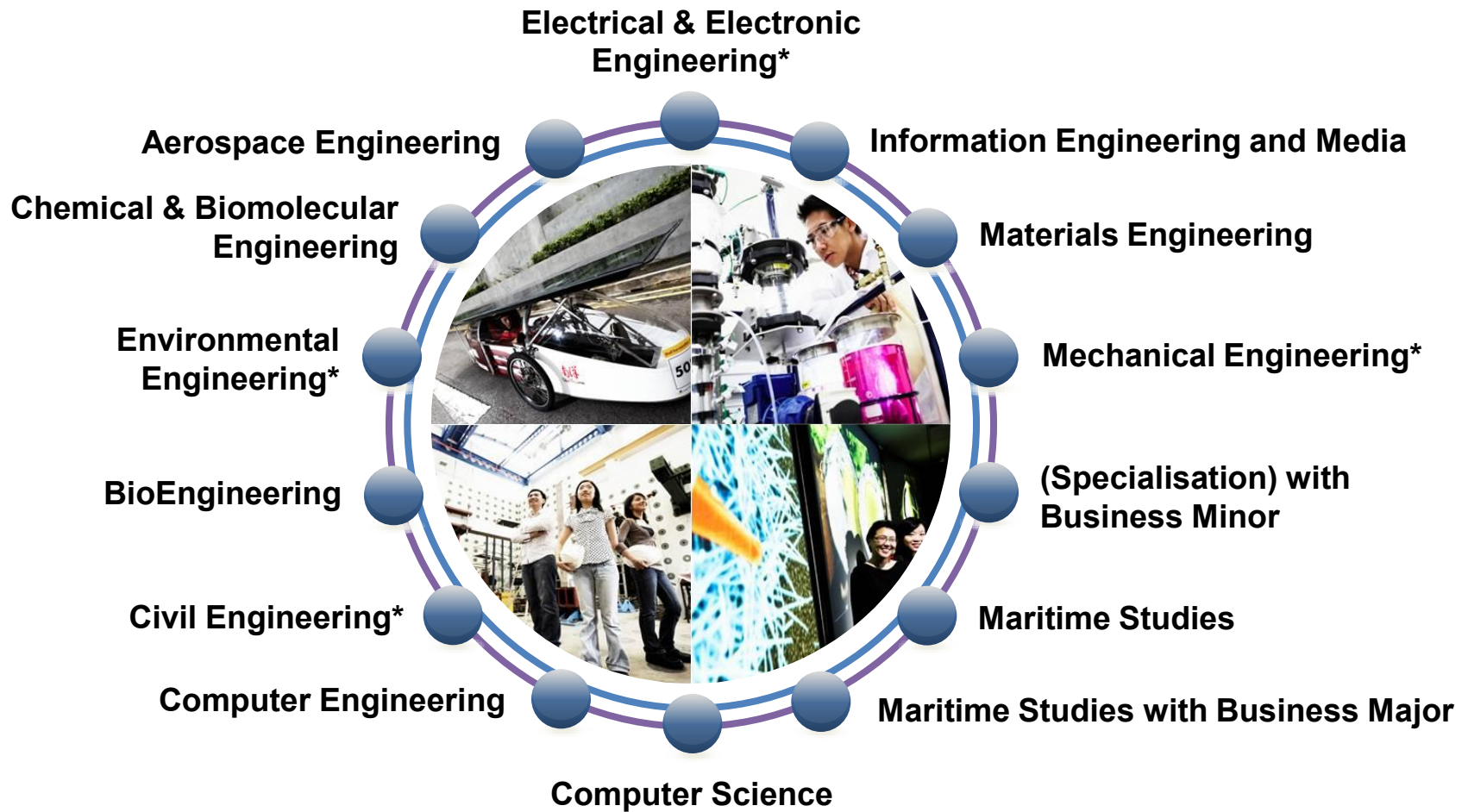
QS UNIVERSITY SUBJECT RANKINGS 2012



- 13th in Civil Engineering
- 16th in Mechanical Engineering
- 26th in Computer Science & Information Systems
- 30th in Chemical Engineering
- 31st in Electrical Engineering

Undergraduate Degree Programmes

18



* *Common Engineering Options*

Undergraduate Double Degree Programmes

19

Business and Computer Engineering

Business and Computer Science

Engineering and Economics

NTU BEng (Computer Engineering) and Georgia Institute of Technology MSc (Computer Science)

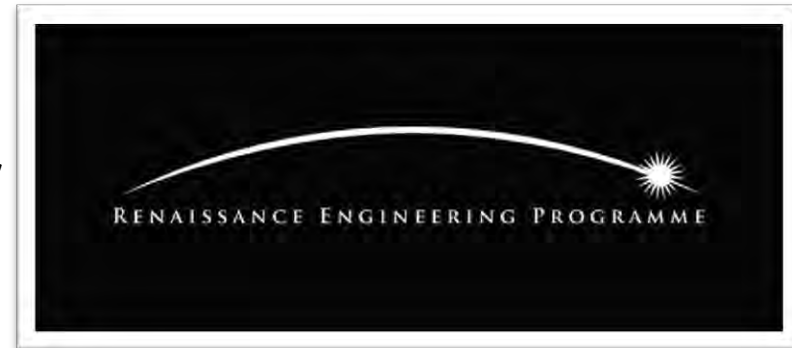
NTU BEng (Computer Science) and Georgia Institute of Technology MSc (Computer Science)

NTU BEng (Electrical & Electronics Engineering) and Georgia Institute of Technology MSc (Electrical and Computer Engineering)



Integrated Programmes

- **Flagship Programme:**
Renaissance Engineering Programme
Bachelor of Engineering Science and Master of Science (Technology Management)
- NTU Bachelor of Engineering (Computer Engineering) and Georgia Institute of Technology Master of Science (Computer Science)
- NTU Bachelor of Engineering (Computer Science) and Georgia Institute of Technology Master of Science (Computer Science)
- NTU Bachelor of Engineering (Electrical & Electronic Engineering) and Georgia Institute of Technology Master of Science (Electrical & Computer Engineering)
- NTU Bachelor of Engineering and Master of Science (Various options)



Graduate Programmes



Types of Programme	Number
^No. of Master of Science (MSc) Programme	25
No. of Master of Engineering (MEng) Programme	6
*No. of Doctor of Philosophy (PhD) Programme	18

^Note: Include Dual & Joint MSc

*Note: Includes Dual & Joint PhD

Average Intake No. (AY 2008/09 – 2012/13)	Number
MSc	784
MEng	22
PhD	321
Total	1,127

Source: OAS

Graduates Intake from official student statistics
AY08/09 - 12/13, excluding Grad. Dip.

Research at CoE

COE has transformed significantly over the last 5 years

	2007	2011
Research grants	S\$46.9m	S\$154.7m
Graduate enrolment	3,532	3,675
No. of research staff	617	941
Publications per faculty	2.8	4.3
Total no. of patents granted	96	193

Top 10 Institution Rankings in Engineering Publications (Jan 2002 – Oct 2012)

Rank	Institution	Number of Publications
1	CHINESE ACAD SCI	11,008
2	INDIAN INST TECHNOL	9,286
3	TSING HUA UNIV	7,885
4	RUSSIAN ACAD SCI	7,219
5	NANYANG TECHNOL UNIV	6,859
6	SHANGHAI JIAO TONG UNIV	6,484
7	UNIV ILLINOIS	6,062
8	GEORGIA INST TECHNOL	5,833
9	NATL UNIV SINGAPORE	5,666
10	NATL CHENG KUNG UNIV	5,281

Source: ISI Web of Knowledge – Essential Science Indicators

Institution Rankings in Engineering by Citations

World's Top 20 Institution Rankings in Engineering by Citations		
Rank	Institution	Total Citations
1	CHINESE ACAD SCI	65,634
2	MIT	53,704
3	UNIV ILLINOIS	52,571
4	INDIAN INST TECHNOL	49,510
5	UNIV CALIF BERKELEY	47,578
6	NANYANG TECHNOL UNIV	45,637
7	STANFORD UNIV	43,694
8	GEORGIA INST TECHNOL	42,185
9	NATL UNIV SINGAPORE	42,060
10	UNIV MICHIGAN	39,917
11	TSING HUA UNIV	37,135
12	UNIV LONDON IMPERIAL COLL SCI TECHNOL & MED	34,678
13	CNRS	33,144
14	CITY UNIV HONG KONG	32,286
15	PENN STATE UNIV	31,193
16	PURDUE UNIV	30,467
17	TEXAS A&M UNIV	29,825
18	HONG KONG POLYTECH UNIV	29,121
19	UNIV CALIF LOS ANGELES	28,791
20	NASA	28,595

✓ **Ranked**
6th in
engineering
citations

Source: ISI Web of Knowledge – Essential Science Indicators





About the Little Red Dot...

SINGAPORE

Why Singapore?

About Singapore



Photo courtesy of www.sunscreen.com.sg

- Strategic location at the crossroads of Asia
- Bustling cosmopolitan city that offers a world-class living environment
- 14,000 MNCs due to its favourable geopolitical and business environment
- Great variety of global gourmet and regional cuisines coupled with great ethnic and global shopping
- A popular tourist destination with countless places of interest

Why Singapore?

Singapore – East Meets West

- Founded by Sir Stamford Raffles in 1819 as a trading port (still a major income source today)
- Independent since 1965
- Population size of 5.3 million (2012)
- Multicultural, highly cosmopolitan and diverse with people of Chinese, Indian, Malay and other ethnicity
- English, Chinese, Tamil and Malay are the official languages with English being the main working language



3.7 Billion People & 21 Trillion US Dollars of GDP Within 7 Hours Flight Radius



Source: * Population (Various sources cited in Wikipedia)

** GDP (IMF 2011, cited in Wikipedia)

Why Singapore?

Some International Rankings of Singapore

- Ranked 1st as the world's most liveable city for Asian expats (ECA International)
- Ranked 1st in international venue for Meetings, Incentives, Conferences and Exhibitions (M.I.C.E) for Countries and Cities (Union of International Associations (UIA), June 2012)
- Ranked 1st worldwide for the ease of doing business (World Bank, 2011)
- Ranked 1st in 2011 on Gallup's Potential Net Migration Index (i.e., top choice for migrants)
- Ranked 1st worldwide as the city with the best investment potential (BERI Report, 2011)
- Ranked 2nd most competitive economy in the world 2011-12 (World Economic Forum)
- Ranked 5th in the world for least corruption (Transparency International, 2011)

Why Singapore?

The Singapore Story

- Climbing the research ladder
“We have moved from the Third World to the First World. Our next challenge is to move into the upper half of the First World in the next 10 years.”
Lee Kuan Yew (First Prime Minister of Singapore)
- Research: major instrument of Government policy



Why Singapore?

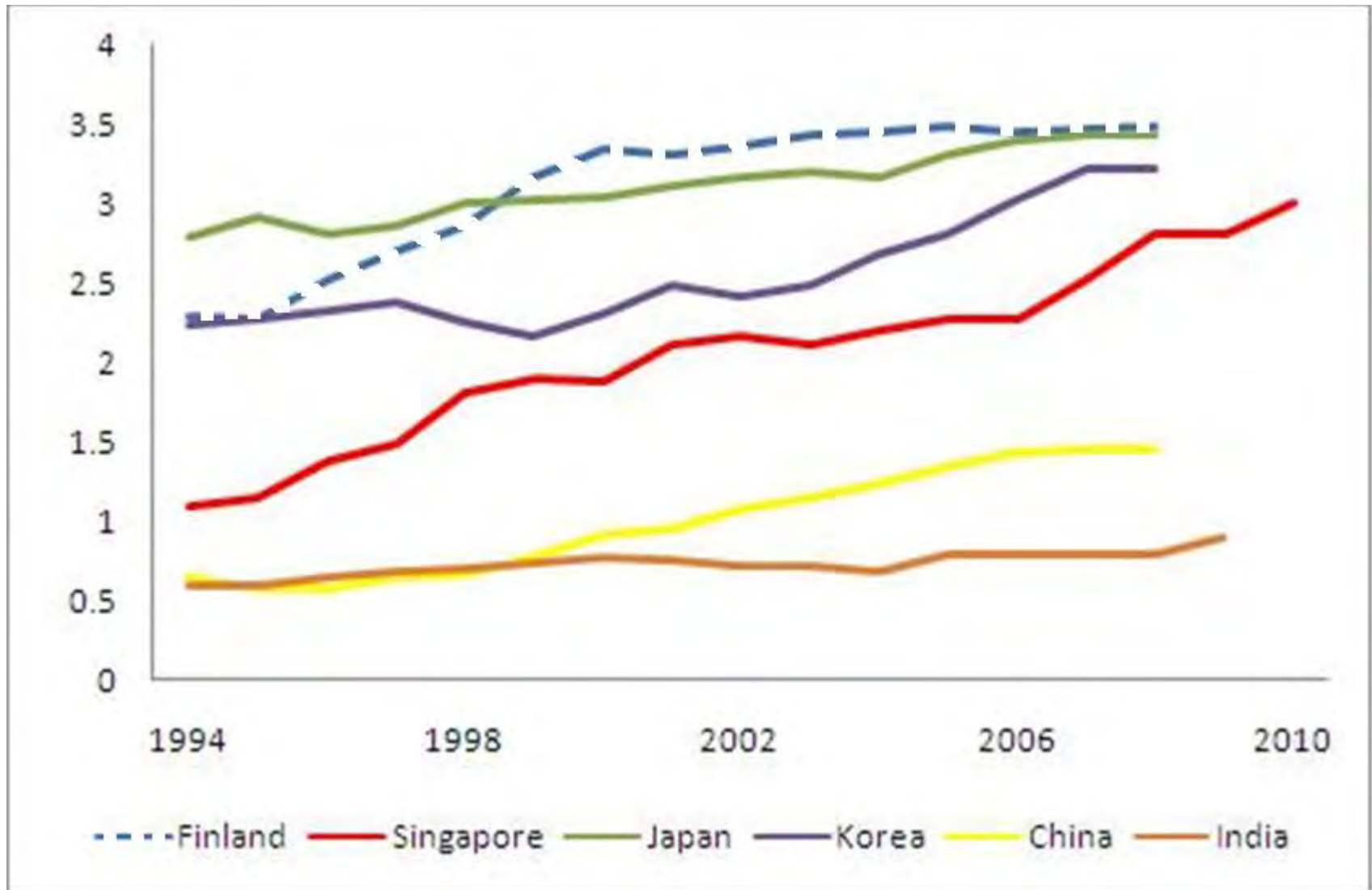
Singapore Moving Fast into the Knowledge Society

- Strong investments in research and innovation
- Expansion of cohort participation
- Grant of autonomy to universities

NTU - An Essential Vehicle



GERD* as % of GDP (Asian)



Source: OECD, Main Science & Technology Indicators 2009/2, except for the data on India.

*GERD: Gross Expenditure on Research & Development

Global E3 2014 Annual Meeting Venue

Nanyang Executive Centre (NEC)

An Overview



- Premier venue for corporate training, retreats and private functions
- Located amidst tranquil settings and soothing greenery at the Yunnan Garden Campus of Nanyang Technological University
- Availability of impeccable conference facilities

The One-stop Residential Venue for Executive Training

Nanyang Executive Centre (NEC)

Facilities at NEC



NEC Atrium



NEC Auditorium



Function Hall



Seminar Room



Breakout Room

Nanyang Executive Centre (NEC)

Guest Wing Accommodation *(ef till Jun 2013)*

- 170 well-furnished guest rooms ranging from single rooms to executive suites



Single Room from S\$130++ per night



Twin Room from S\$150++ per night

Nanyang Executive Centre (NEC)

Guest Wing Accommodation *(ef till Jun 2013)*



Executive Deluxe from S\$170++ per night



Junior Suite from S\$200++ per night

Nanyang Executive Centre (NEC)

Guest Wing Accommodation *(ef till Jun 2013)*



Executive Suite from S\$240++ per night

- accommodates 2-4 pax



A Cultural Enclave...

SINGAPORE

Why Singapore?

Places of Interest



Photo courtesy of singapore.travelxem.com/little-india/

Little India – Spicy Town

- A Cultural enclave with lots of olden-day trades can still be found by its roadsides, alleys and back lanes.
- Fortune-tellers & their parrots, flower vendors selling garlands of jasmine, kachang puteh (roasted nuts) sellers on pushcarts and street-side newspaper vendors & great Indian Restaurants are interesting sights to be found.



Photo courtesy of www.mygola.com

Chinatown

- Bustling Chinatown district for shopping and eating
- Chinatown Heritage Centre pulsates with the memories of yesteryear.
- **Read on** Singapore's Cultural Precincts like Geylang Serai; Kampong Glam; Joo Chiat or Katong etc.
<http://singapore.travelxem.com/culture-heritage/cultural-precincts/>

Why Singapore?

Places of Interest

Sentosa Island



Photo courtesy of www.sentosa.com.sg

Asian Civilisation Museum



Photo courtesy of www.acm.org.sg

Singapore Botanic Gardens



Photo courtesy of www.goodbuyholidays.com

Singapore Flyer



Photo courtesy of www.singaporeflyer.com.sg

Why Singapore?

Places of Interest



Photo courtesy of www.travelsingaporeyourself.com

Singapore Wildlife Reserves



- Award-winning Wildlife Reserves
- World's first Night Safari



Photo courtesy of www.gardensbythebay.com.sg

Gardens by the Bay

- Cloud Forest, a conservatory featuring the world's tallest indoor waterfall
- Flower Dome with plants from the Mediterranean and semi-arid subtropical regions

Living in SINGAPORE

Living in Singapore

Other Hotel Accommodation

Marina Bay Sands



Photo courtesy of <http://en.marinabaysands.com>

- 5-star hotel featuring the Sky Park and Infinity Pool with breath-taking views
- Deluxe room from S\$419++ per night

The Fullerton Hotel



Photo courtesy of <http://www.fullertonhotel.com/default-en.html>

- 5-star hotel situated amongst Singapore's most iconic places
- Courtyard room from S\$299++ per night

Why Singapore?

Hotel Accommodation

Intercontinental Singapore



Photo courtesy of www.ihg.com

- 4-star hotel located at the heart of Singapore CBD
- Deluxe room from S\$311++ per night

The Carlton Hotel



Photo courtesy of www.carltonhotel.sg

- 5-star hotel with stunning views of the Singapore Skyline
- Superior room from S\$305++ per night

Living in Singapore

Hotel Accommodation

Swissôtel The Stamford



Photo courtesy of www.swissotel.com

- 5-star hotel known for being one of the tallest hotels in SE Asia
- Classic room from S\$260++ per night

Raffles Hotel



Photo courtesy of www.raffles.com

- 5-star hotel in colonial style with rich Singapore history
- Raffles Inc State room from S\$690++ per night

Living in Singapore

Food...Gorgeous Food

- Great Reputation as a "Food Paradise", it offers the widest range of cuisines and tantalising food to satiate the appetites of people from different cultures and races.
- With more than 17,000 F&B establishments, including restaurants, cafes, bars and hawker stalls, eating in Singapore has never been more fun!
- Choose from five most popular cuisines in Singapore: Western, Chinese, Malay/ Indonesian, Indian, the ubiquitous Singaporean/Peranakan cuisine.

Photo courtesy of www.tripadvisor.com.sg



Arrival in Singapore

Traveling to Singapore

Official Airline of Singapore: the Singapore Airlines



* Photo courtesy of www.samchuiphotos.com/SQ380/SQ380

www.samchuiphotos.com/SQ380/SQ380



Photo courtesy of manichkina.wordpress.com

Arrival in Singapore

Changi International Airport

Changi Airport Terminal



Photo courtesy of www.dulich.chudu24.com

Singapore Airport Tower



Photo courtesy of www.theodora.com

- World's most awarded "Best Airport"
- Encompasses 330 retail stores and 120 F&B outlets
- Serves more than 100 international airlines to more than 220 destinations



Travel by Taxi to NEC or Downtown

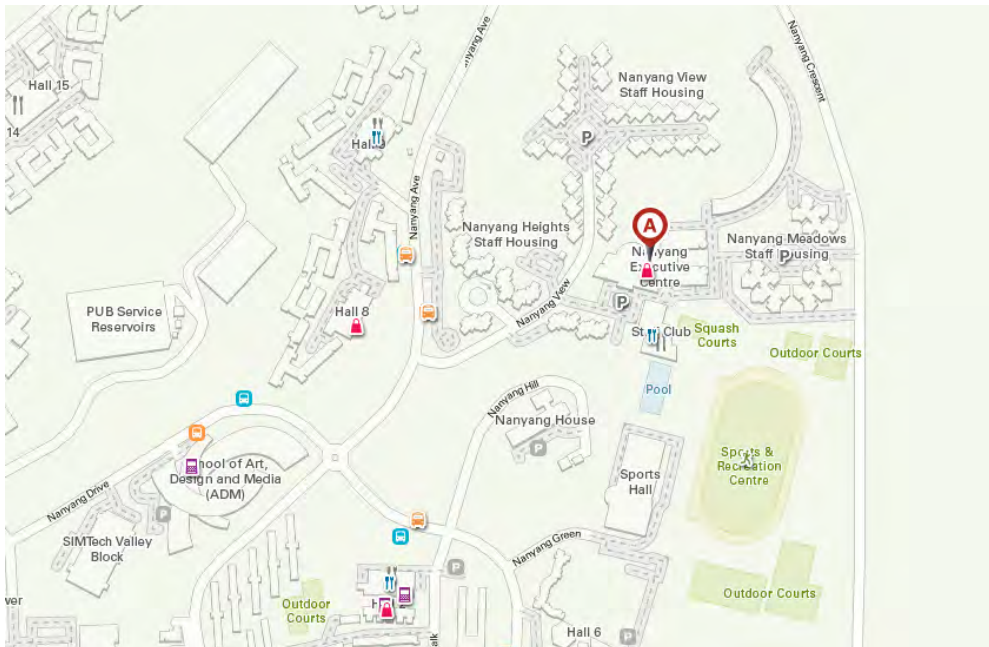
- To City: 20 mins (non-peak) at S\$32
- To NTU: 45 mins (non-Peak) at S\$36-S\$45

Arrival at NTU

Airport Transfer

- Guests staying at NTU are recommended to get a taxi from the Airport for convenience purposes.
- The taxi fare from Changi Airport to NTU is approximately S\$36 to S\$45. There is a late night surcharge of 50% on top of the metered fare for travel between 12 midnight and 6 am.

Campus Map



Address:

Nanyang Executive Centre
60 Nanyang View, Singapore
639673



Thank You