

NUS
at a Glance
2016/17

Vision

A leading global university centred in Asia, influencing the future

Mission

To transform the way people think and do things through education, research and service

Asian and global. Innovative and future-ready.

A leading global university centred in Asia, the National University of Singapore (NUS) was founded in 1905 as a modest medical college with 23 students. Today, Singapore's flagship university spans three campuses in Kent Ridge, Bukit Timah and Outram, and is widely seen as among the best universities in Asia and the world.

NUS offers a distinctively Asian and global experience that is grounded in maximising the potential of students and their future-readiness, and broad-based research excellence that enables beneficial translation.

Renowned for pioneering new models of education, the University is also highly regarded for the hallmark rigour and breadth of its academic programmes, innovative entrepreneurship education, and experiential learning.

At NUS, we aim to change the way you think and do things.

Beyond Acquisition of Knowledge

Our programmes are more than textbooks and theories. They equip our students with life skills for a better future.

An NUS education includes learning from top professors in their fields, international opportunities with top overseas universities, internships with industry leaders at home and abroad, and projects that examine real-world issues. Our **rigorous academic programmes** empower students to think critically across disciplines, and foster a resourceful and enterprising spirit. They also inspire them to be constructive and responsible members of the community as well as global citizens.

Through the **grade-free scheme** specially designed to enhance the freshman year, and the **general education curriculum**, our students are free to explore, experiment and discover their interests. We offer a breadth of disciplines and global programmes at the undergraduate, graduate and continuing education levels, as well as entrepreneurial opportunities around the world. The **student exchange as well as double, joint and concurrent degree programmes** allow our students to take classes at some of the world's best universities.



17 Schools

- Arts and Social Sciences
- Business
- Computing
- Continuing and Lifelong Education
- Dentistry
- Design and Environment
- Duke-NUS Medical School
- Engineering
- Integrative Sciences and Engineering
- Law
- Medicine
- Music
- Public Health
- Public Policy
- Science
- University Scholars Programme
- Yale-NUS College



The Study Trips for Engagement and EnRichment (STEER) programme familiarises students with the socio-cultural-economic environment of newly emerging markets

On-campus living with specialised residential college programmes provides avenues for experiential learning and meaningful **living-learning communities** to flourish. With the aid of technology, our spectrum of **blended learning courses** integrate face-to-face activities with online platforms to transform the way our students learn on, and increasingly, off campus.

Yale-NUS College, Singapore's **first liberal arts college**, combines the strengths of established science and liberal arts traditions with the diverse intellectual traditions and cultures of Asia and the world. A full residential programme complements the students' academic learning, broadens their perspectives, and nurtures active citizens for a complex and interconnected world.

The Centre for Future-ready Graduates (CFG), forges strong industry partnerships, enabling

our students to assemble a strong portfolio of hands-on industry experience and future-ready expertise. CFG also offers workshops to provide students with the knowledge and skills to differentiate and market themselves successfully in the face of intense global competition.

SKILL SETS FOR A COMPLEX WORLD

To enhance the personal and interpersonal skills of NUS freshmen, **Roots and Wings**, a foundational life skills programme, was introduced in January 2016. Roots and Wings is designed to prepare NUS students for an increasingly uncertain world, inspire them to develop an interest in lifelong learning, and help them gain from experiential learning opportunities.

Impactful Research for a Better World

We create synergies across knowledge boundaries and disciplines.

From ageing and translational medicine, finance and quantum technologies, to the environment and urbanisation, NUS researchers search for discoveries and solutions to improve life in Asia and the world.

Our strategy targets **high-level research** over a broad base from which several peaks of excellence naturally arise. We collaborate with government, industry, NGOs and leading academic partners to ensure that NUS research consistently addresses **real-world issues**.

NUS is renowned internationally for **high-calibre and innovative research** in engineering, science and technology, biomedical sciences, and the humanities and social sciences. In support of Singapore's plans to become the world's first smart nation, we have dedicated a smart nation research cluster that focuses on big data from different sectors, optimising results obtained from this analysis, and maximising cybersecurity.



To better respond to the interconnected challenges facing Asia and the rest of the world, we have combined the strengths of our schools, and research institutes and centres to build **eight integrative research clusters**:

- Ageing
- Asian Studies
- Biomedical Sciences and Translational Medicine
- Finance and Risk Management
- Integrative Sustainability Solutions
- Maritime
- Materials Science
- Smart Nation

To spur research excellence in local universities, **Research Centres of Excellence (RCEs)** are set up by Singapore's National Research Foundation jointly with the Ministry of Education. NUS hosts three of Singapore's five RCEs, as follows:

- Cancer Science Institute of Singapore
- Centre for Quantum Technologies
- Mechanobiology Institute, Singapore

* A fourth centre, *Singapore Centre on Environmental Life Sciences Engineering*, is a strategic partnership with Nanyang Technological University.

NUS has **27 University-level Research Institutes and Centres** that focus on critical issues facing Asia and the world:

- Asia Research Institute
- Centre for Advanced Two-Dimensional Materials
- Centre for International Law



- Centre for Maritime Studies
- Centre for Healthcare Innovation and Medical Engineering
- Centre for Remote Imaging, Sensing and Processing
- East Asian Institute
- Energy Studies Institute
- Institute for Mathematical Sciences
- Institute of Data Science
- Institute of Real Estate Studies
- Institute of South Asian Studies
- Interactive and Digital Media Institute
- Life Sciences Institute
- Middle East Institute
- NUS Environmental Research Institute
- NUS Global Asia Institute
- NUS Nanoscience and Nanotechnology Institute
- NUS (Suzhou) Research Institute
- Risk Management Institute
- Singapore Institute for Neurotechnology
- Singapore Nuclear Research and Safety Initiative
- Singapore Synchrotron Light Source
- Solar Energy Research Institute of Singapore
- Temasek Laboratories
- The Logistics Institute – Asia Pacific
- Tropical Marine Science Institute

521

Patent applications filed¹

122

Research awards received²

3,023

New and existing projects underway²

8,341

Papers published³

¹ As at 20 April 2016

² As at 26 May 2016

³ As at 8 June 2016 (source: SCOPUS)

Inspiration outside the Classroom

From internships to start-ups, we nurture and fuel each student's drive to take on entrepreneurial challenges.

Entrepreneurial education is provided through NUS Enterprise which offers the **NUS Overseas Colleges (NOC)** programme.

Our students are offered overseas internship opportunities in dynamic start-up environments at strategic hubs around the world, where they study at prestigious partner universities while gaining first-hand entrepreneurial experience and exposure.

In Singapore, they will get to learn more about local entrepreneurial challenges through a rigorous stint in a start-up or high growth company with a regional footprint.

The NUS Overseas Colleges are located in:

- Silicon Valley, United States (2002)
- Shanghai, China (2004)
- Stockholm, Sweden (2005)
- Singapore (2008)
- Beijing, China (2009)
- Israel (2011)
- New York, United States (2014)
- Lausanne, Switzerland (2016)
- Munich, Germany (2016)

Other experiential learning opportunities include:

- **Summer Programme:** a two-week residential course on local business insight and entrepreneurship development activities for international students
- **Lean LaunchPad Singapore Programme:** for those who wish to have hands-on experience on commercialising technological inventions

Entrepreneurship support is provided through the NUS Start-Up Runway, comprising a comprehensive suite of incubator-cum-accelerator services and platforms on and off campus in Singapore, as well as overseas for start-ups to form and grow their businesses.

>3,000

Invention disclosures

>5,000

Patents filed

>350

Technology licenses executed

>38%

Agreements with Industry*

>1,900

NOC alumni

>250

Companies set up by NOC students and alumni

*Cumulative figures as at December 2015
Average of last 3 years (2013–2015)



Students have the opportunity to study at the École Polytechnique Fédérale de Lausanne in Switzerland while interning with start-ups there

Photo: Alain Herzog

Industry partnerships are in place to help NUS inventions make the leap from laboratory to marketplace through technology commercialisation. We also work closely with agencies such as the National Research Foundation on funding to develop and market NUS technologies.

Collaboration between faculties and alumni groups, and student initiatives, help promote **entrepreneurship outreach**. Other programmes that spur entrepreneurial buzz include social-driven initiatives such as the DBS-NUS Social Venture Challenge and global networking events such as InnovFest unBound.



Blk71 Singapore houses incubation facilities for start-ups by NUS students and alumni

Research on entrepreneurship and innovation is also conducted to ensure constant growth and support in entrepreneurial activities.

BEYOND LOCAL SHORES

Block 71 San Francisco, a co-working space aimed at fostering closer ties between start-up ecosystems in Singapore and the US, was launched in 2015. Singapore tech companies exploring stateside business opportunities can use the California-based facility to better understand the US market, set up shop and expand their networks into the tech community there. US-based entrepreneurs and investors can discover more about Singapore and Southeast Asian markets through Block 71 San Francisco's events and activities.

Strength in Partnerships

We build ties with counterparts around the world, leading to groundbreaking initiatives.

Over the years, NUS has built a **global network of partner institutions in education and research**, some of whom are ranked among the world's best.

Such collaborations promote an **exchange of ideas** targeted at areas of strategic interest and leverage each institution's unique strengths, creating many opportunities for teaching, learning and discovery, and innovative new programmes.

Partnerships

- Duke-NUS Medical School with Duke University
- Institute of Real Estate Studies with Sino-Singapore Tianjin Eco-city Investment and Development Co Ltd
- Keio-NUS CUTE Centre with Keio University
- Keppel-NUS Corporate Laboratory with Keppel Corporation (Keppel) and National Research Foundation
- Lee Kuan Yew School of Public Policy with John F Kennedy School of Government, Harvard University
- The Logistics Institute – Asia Pacific with Georgia Institute of Technology
- Alliance of global campuses with University of California, Berkeley and University of Cambridge
- NUS Environmental Research Institute with Shimadzu (Asia Pacific)
- NUSDeltares with Deltares

- Risk Management Institute with University of California, Berkeley
- Singapore, Peking and Oxford Research Enterprise for Water Eco-Efficiency, with Peking University and University of Oxford
- Yale-NUS College with Yale University
- Yong Siew Toh Conservatory of Music with Peabody Institute, Johns Hopkins University

Partners

- Agilent Technologies Inc.
- Applied Materials Inc.
- Beth Israel Deaconess Medical Centre, Harvard University
- Centre National de la Recherche Scientifique
- Delta Electronics
- European Aeronautic Defence and Space Company
- ETH Zurich
- Fuji Xerox Co. Ltd
- Georgia Institute of Technology



Peabody Institute, Johns Hopkins University



NUS (Suzhou) Research Institute

- GLOBALFOUNDRIES Inc.
- Humboldt University of Berlin
- Imperial College London
- International Business Machines Corporation
- International Monetary Fund
- International Rice Research Institute
- King's College London
- Kühne Foundation
- Massachusetts Institute of Technology
- Microsoft Singapore
- Peking University
- Sciences Po Paris
- Shanghai Jiao Tong University
- The Hebrew University of Jerusalem
- Tsinghua University
- University of British Columbia
- University of North Carolina at Chapel Hill
- University of Oxford
- University of Tokyo
- University of Toronto
- World Bank
- World Health Organization

Member of Prominent Global Networks

- ASEAN University Network
- Association of Commonwealth Universities
- International Alliance of Research Universities
- Universitas 21

The University has also established a number of **overseas education and research facilities** with reputable international partners:

- NUS Research Institute in Suzhou Industrial Park
- NUS-Tsinghua Extreme (NExT) Search Centre in Beijing
- SONDRALaboratory with Supelec, Onera and the DSTA Research Alliance in France
- Xiada-NUS Joint Life Science Laboratory with Xiamen University in China
- IRES Global Logistic Properties Research Centre with Global Logistic Properties in China

Campus Vibrancy at its Best

An NUS education goes beyond the classroom.

Student life at NUS is invigorating and fulfilling. Whether a series of organised events or spontaneous activities, there is always something to pique the interest of every student.

With the wide array of **artistic and cultural pursuits** on campus, the University offers a busy arts calendar packed with events from music recitals and rockfests to jazz soirées and classical dances. The yearly **NUS Arts Festival** is the flagship arts season, with bold presentations and fresh performances that never fail to captivate avid arts enthusiasts.

From **inter-faculty games to inter-varsity meets**, we are also the launch pad for many sporting champions who represent the nation in the international arena. Many talented musicians have also honed their skills at the University before excelling globally.

>100

Student organisations,
societies and interest groups

>40

Sports under TeamNUS

>20

Groups in music, dance,
drama and visual arts



All full-time undergraduates are members of the **NUS Students' Union (NUSSU)** and its respective faculty constituent clubs. NUSSU comprises a total of 14 constituent clubs and nine committees, with the latter covering areas such as global relations and community service, among others.



UNIVERSITY TOWN

University Town (UTown) embodies the NUS vision of a dynamic campus ecosystem. Designed for today's digital and collaborative learners, educational facilities and resources at UTown blur the line between learning and social interaction. Complete with residential colleges, sports amenities and performance spaces, the invigorating environment provides for a richer and more holistic campus experience.

Making A Difference

A university founded by the community, for the community.

NUS students have a rich tradition of active involvement in community service, both locally and overseas. Through the years, they have made major contributions, through fundraising and a myriad of projects, to **make a difference and create value for society**.

We have established the **Centre for Community Engagement** to further enhance the spirit of volunteerism in our students, and encourage them to share their time with the society at large.

One key event which galvanises the entire student community in giving is **Rag and Flag**, which has its roots as Welfare Week in 1957. This iconic event comprises Flag Day where students sell flags to raise funds for charity; and Rag Day, where a dazzling parade of floats and lively student performances entertain and thank the public for their contributions to the less privileged.



>\$6million

raised through Rag and Flag since 2000

>1,000

families benefitted through Neighbourhood Health Service since 2008



Some of our notable projects include **Neighbourhood Health Service**, a free door-to-door health screening exercise for families living in one-room or two-room rental flats; and **Connect Tuition** which sees students from the University Scholars Programme reaching out to underprivileged children through tuition and mentorship.

SPREADING THE GREEN MESSAGE

Our students are also ardent green advocates, and as a community, we continually find ways to enhance the environmental sustainability of our campus. Best practices for **green living and leadership** are part of an NUS education.

The campus is a model of sustainability and NUS is a founding member of the **International Sustainable Campus Network**, which includes Harvard University, ETH Zurich and Peking University. We share our best practices in operational sustainability in the International Alliance of Research Universities (IARU) Green Guide for Universities, an e-guide that presents key issues, recommendations and lessons learned by IARU universities.



Asian and Global

1st

IN ASIA*

71

DOUBLE DEGREES

23

CONCURRENT DEGREES

8 in 10

STUDENTS GO ABROAD FOR OVERSEAS EXPOSURE



>300

PARTNER UNIVERSITIES IN > 40 COUNTRIES FOR STUDENT EXCHANGE

70

BACHELOR'S DEGREES

37

JOINT DEGREES

30

DOUBLE MAJORS

9

NUS OVERSEAS COLLEGES

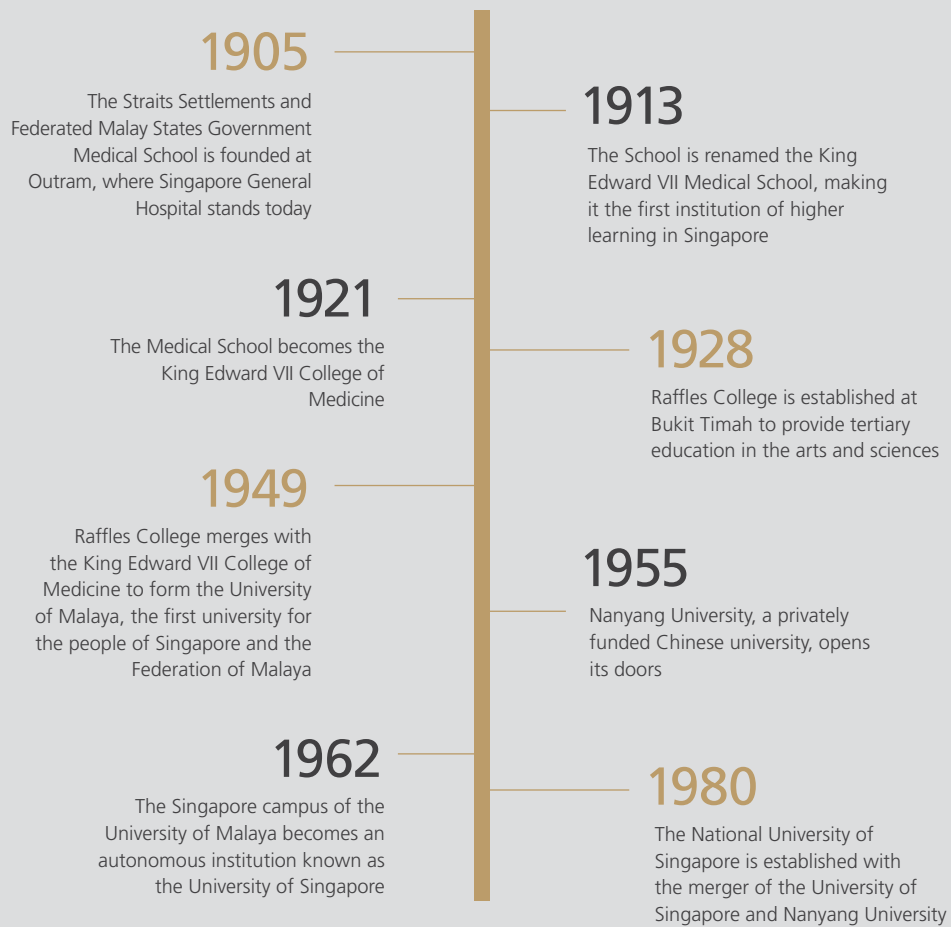
17th

GLOBALLY IN GRADUATE EMPLOYABILITY



* Quacquarelli Symonds University Rankings: Asia 2016
Times Higher Education Asia University Rankings 2016

Distinguished Heritage





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