Introduction to National Taiwan University
National Taiwan University
1945

6 Colleges

Liberal Arts  Law
Science      Agriculture
Medicine     Engineering

student number: 530
National Taiwan University
Today

11 colleges
2 professional schools
54 departments
103 graduate institutes
66 research centers

student number: 33,000
Academic Programs

11 Colleges
- Liberal Arts
- Science
- Medicine
- Law
- Bioresources & Agriculture
- Engineering
- Electrical Engineering
- and Computer Science
- Management
- Public Health
- Social Sciences
- Life Science

2 Professional Schools
- School of Veterinary Medicine
- School of Dentistry
National Taiwan University • Islandwide Campuses
Taipei campuses
University Hospital
180 ha (450 ac)

National Taiwan University • Islandwide Campuses
Chupei Branch Campus
Branch Hospital
Biotechnology & Extension

25 ha (60 ac)

National Taiwan University • Islandwide Campuses
Yunlin Branch Hospital

5 ha (12 ac)
Experimental Forests (School of Forestry and Resource Conservation)
Highland Farm (Department of Horticulture)
34,400 ha (85,000 ac)
Total NTU land size
35,000 ha (86,000 ac)
= 1% of Taiwan
(3,500,000 hectares)
Student Enrollment
1981-2011

33,000 students in 2010-2011
graduate/undergraduate ratio = 1:1

33,000 students in 2010-2011
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Faculty

BREAKDOWN OF FULL-TIME FACULTY

- 92% PHD
- 8% MASTER, BACHELOR

- 70% ALMA MATER ABROAD
- 30% ALMA MATER IN TAIWAN

FULL-TIME = 1,983
PART-TIME = 1,818
Dr. Chang-Lin Tien  
Former Chancellor of 
UC Berkeley 
1990-1997

Dr. Henry Yang  
Chancellor of 
UC Santa Barbara 
Since 1994

More than 40 university presidents
NTU Alumni - Academia

Academicians

Academia Sinica, Taiwan
30+ in Humanities and Social Sciences
45+ in Mathematics and Physical Sciences
50+ in Life Sciences

National Academy of Sciences, USA
NTU Alumni - Business

VIA Technologies

Quanta

Taiwan Semiconductor Manufacturing Company

Garmin

Koos Group

Asus
Intel-NTU Center (M2M) with College of Electrical Engineering and Computer Science

Only university outside the US

NSC: iRiCE (International Research-Intensive Center of Excellence)
MD Anderson Cancer Center

NSC: iRiCE
(International Research-Intensive Center of Excellence)
NTU Cancer Center

Terry Gou
USD 500 million

Major Donations
Intelligent robotics lab with France (CNRS, UPMC, and INRIA)

NSC: iRiCE
(International Research-Intensive Center of Excellence)
Intelligent robotics lab with France (CNRS, UPMC, and INRIA)
California NanoSystems Institute
European Union Centre in Taiwan

32 centers worldwide

International Cutting-edge Research Centers
King Abdullah University of Science and Technology (KAUST)

Solar and Alternative Energy Research Center

KAUST elected 7 universities out of 60, incl. Cornell, Oxford

NTU is the only Asian university elected

NTU New Energy Center

International Cutting-edge Research Centers
Weather Climate and Disaster

Earthquake Engineering

government early warning system

Nano-Electro-Mechanical-Systems

Digital Archives Resource Center
✓ 1.9 million digital annotations
✓ 8.6 million images
✓ 208 million words of original texts including Ming and Qing documents

Humanities & Social Science

National-Level Research Centers
NTU University-Level Research Centers

Biology
- Biodiversity
- Biotechnology

Medicine
- Genomic Medicine
- Neurobiology and Cognitive Science

Engineering
- Emerging Material and Advanced Devices
- Quantum Science and Engineering
- Innovation and Synergy for Intelligent Home and Living Technology

Humanities
- Advanced Studies in Humanities and Social Science
NTU’s current research

Wideband MRI
(Magnetic Resonance Imaging)

<table>
<thead>
<tr>
<th>application</th>
<th>Whole body</th>
<th>Torso</th>
<th>Abdomen</th>
<th>Human brain</th>
<th>Single organ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suggested acceleration factor ($W$)</td>
<td>8~10</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

Acceleration depends on geometry of subject (organ, part...)
NTU’s current research

System on a Chip (SoC)

NTU interdisciplinary team developed

- coin-sized
- powerful
- super affordable

pain-relief biomedical microchip
NTU’s current research

Renewable and sustainable energy (Kuroshio)
NTU’s current research

“ARA” (Askaryan Radio Array) Cosmology and Particle Astrophysics Observatory, Antarctica
NTU’s current research

- Syntheses, characterizations and applications of molecular metal wires & functional nanomaterials
- Microbial genomics core
- Impact of climate change on Taiwan’s overall security
- Digital Archives Resource Center
- East Asian Confucianisms
Partnering with the industry
Overall Ranking: 121
Asia: 9
Chinese World: 1

Engineering, Technology, and Computer Science:
World: 26
Asia Pacific: 2

Shanghai Jiao Tong University
Global University Rankings
Times Reputation Ranking of Worldwide Universities

2012 Ranking: 61-70

QS World University Rankings

2011 Ranking: 87

45 Arts & Humanities
43 Natural Sciences
38 Engineering & Technology
53 Social Sciences & Management
47 Life Sciences
International NTU

- Partner universities: 414, 55
- Dual degree programs: 45
- Student exchange programs: 283
- International students: 3,156, 75
- Study abroad students: 954
- International faculty: 137 (7%), 28
Asia-Pacific Association for International Education

The largest APAIE conference and exhibition
1000 delegates from 45 countries
NTU Advantages
Teaching Excellence

Cutting-edge research

Many opportunities for student exchanges

A gateway to Greater China
Elite Chinese Language Programs

Center for International Education (CIE)

Programs

- International Chinese Language Program (ICLP)
- Chinese Language Division (CLD)

E-learning

Elite Chinese Language Programs

NTU’s Advantages

✓ Rich traditions of classical and modern Chinese language education
✓ Instruction in both Traditional and Simplified Chinese characters
✓ Speaking-oriented training
Looking Ahead

Joining forces

- Create more incentives for joint programs
- Encourage faculty contacts and exchanges
- Promote 2-way summer programs
- Explore joint or dual degree programs
THANK YOU

National Taiwan University