



National Chiao Tung University at a Glance

History

- ▶ Started as Nanyang College in Shanghai in 1896
- ▶ Shares the origin & name of “交通” (“Chiao Tung” or “Jiaotong”) with 4 universities in China: Shanghai, Beijing, Xi’an & Southwest
- ▶ Re-established as NCTU in 1958 in Hsinchu, Taiwan, focusing on electrical & computer engineering
- ▶ Evolved into a comprehensive university of 9 colleges (19 depts & 32 graduate institutes)

Main (Kuang-Fu) Campus

- ▶ Situated in Hsinchu, the “Silicon Valley” of Taiwan
- ▶ Adjacent to the Hsinchu Science Park, the largest science park in Taiwan
- ▶ Surrounded by 7 national laboratories, 2 of which are on NCTU campus
- ▶ 5-minute drive to ITRI (Industrial Technology Research Institute)

Campuses

- ▶ Hsinchu:
 - ▶ Kung-Fu Campus & Bo-Ai Campus
 - ▶ Taipei Campus
 - ▶ Ju-Bei Campus
 - ▶ Tainan Campus

Students

- ▶ A research oriented university with 5,604 undergraduates & 7,363 postgraduates
- ▶ International students from over 60 countries
- ▶ Member of the University System of Taiwan (UST) (students can also take courses at Natl Central Univ., Natl Tsing Hua Univ. & Natl Yang-Ming Univ.)

Faculty & Staff as at 2011

- ▶ 942 teaching & research faculty
- ▶ 144 research staff
- ▶ 1781 administrative & support staff
- ▶ Largest number of IEEE fellows as faculty members among universities in Taiwan

Rankings

- ▶ 47th in Engineering & 36th in Computer Science by Shanghai Jiaotong University’s Academic Ranking of World Universities 2010
- ▶ 26th in Computer Science by ESI for publications
- ▶ 10 depts/institutes accredited by Institute of Engineering Education Taiwan (IEET)

Colleges

- ▶ Electrical & Computer Engineering
- ▶ Computer Science
- ▶ Science
- ▶ Engineering
- ▶ Biological Science & Technology
- ▶ Management (AACSB-accredited)
- ▶ Humanities & Social Sciences
- ▶ Hakka Studies
- ▶ Photonics

Finances, Research Funding & Private Support

- ▶ Total external funding: US\$69m
- ▶ Total external research funding: US\$53m
- ▶ Research funds from the government: US\$45.2m
- ▶ Over 81% faculty engaged in sponsored research by the National Science Council

Research – Focusing on Interdisciplinary Approach to Develop Cutting-edge Technology

- ▶ 7 Top Research Centers
 - ◊ Emerging Nano-Electronics and System Research Center
 - ◊ Intelligent Information Communications Research Center
 - ◊ Frontier Photonics Research Center
 - ◊ Biomedical Electronics Center for Translational Research
 - ◊ Center for Interdisciplinary Science
 - ◊ Center for Bioinformatics Research
 - ◊ Brain Research Center

Patents & Technology Transfer

- ▶ One of the highest number of patents granted among Taiwan universities
- ▶ Highest revenue in technology licensing in Taiwan
- ▶ 299 patents filed in 2010
- ▶ 87 technology transfers in 2010
- ▶ A total of 98 incubated projects by 2010
- ▶ 9 companies incubated to date, including Wretch.cc, the largest blog & album network community in Taiwan

Alumni

- ▶ Two-thirds of the CEOs & general managers in the Hsinchu Science Park are NCTU alumni
- ▶ Distinguished Alumni:
 - ◊ Dr. Stan Shih, Founder of Acer
 - ◊ Dr. Jonney Shih, Chairman of ASUSTek Computer Inc.
 - ◊ Dr. Fan-Cheng Tseng, Vice Chairman of Taiwan Semiconductor Manufacturing Company Limited (TSMC)
 - ◊ Dr. John Hsuan, Former CEO of United Microelectronics Corporation (UMC)
 - ◊ Dr. Ken Kao, Founder of D-Link Corp.
- ▶ The largest alumni network in the Asia Pacific region (along with the 4 Jiaotong Universities in China)

Internationalization

- ▶ Over 300 collaborations with prominent universities & institutions around the world, including Carnegie Mellon University, Chalmers University of Technology, IMEC, Katholieke Universiteit Leuven, North Carolina State University, Technische Universität München, Tokyo University, UIUC
- ▶ Most agreements include student & faculty exchange, share of research
- ▶ Dual Degree Programs
 - ◊ Katholieke Universiteit Leuven (KUL) – M.S. & Ph.D.
 - ◊ University de Nantes – Ph.D.
 - ◊ Institut National Des Telecommunications – M.S. & Ph.D.
 - ◊ Waseda University – M.S.
 - ◊ University of Maryland – Ph.D.
 - ◊ North Carolina State University – Ph.D.
 - ◊ Paris-Sud XI University – M.S.
 - ◊ John Marshall Law School – M.S.
 - ◊ Washington University in St. Louis – M.S.
 - ◊ Carnegie Mellon University – Ph.D.
 - ◊ Case Western Reserve University – B.S.
 - ◊ Ecole Supérieure D electricite Supelec – M.S. & Ph.D.
- ▶ English-taught master’s programs
 - ◊ EECS International Graduate Program
 - ◊ Global MBA Program
- ▶ English-taught courses offered in all 9 colleges
- ▶ Free Chinese courses