NCTU
A University Challenging Tomorrow
Taiwan
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History of the University

1896
Founded as one of the two oldest Chinese universities established along the Western education system

College and Department Firsts
1897 The first to establish China’s normal education system and a complete new education system from the primary to university levels
1907 The first in China to establish a program of instruction in electrical engineering
1918 The first to establish a higher education system combining engineering and management
1926 Established China’s first graduate school: Institute of Industry, Nanyang University
1958 Established Taiwan’s first Institute of Electronics
1964 Established Taiwan’s first Department of Electro-physics
1965 Established Taiwan’s first Department of Automatic Control
1966 Established Taiwan’s first Department of Communication Engineering
1979 The first in Taiwan to establish an Institute of Computer (Information) Engineering
1980 The first in Taiwan to establish an Institute of Electro-Optical Engineering
1991 The first in Taiwan to establish an Institute of Management of Technology
1994 Established Taiwan’s first College of Electrical Engineering and Computer Science
1999 Established Taiwan’s first Department of Biological Science and Technology
2000 Established Taiwan’s first Institute of Technology Law
2004 Established Taiwan’s first College of Hakka Studies
2005 Established Taiwan’s first College of Computer Science
2009 Established Taiwan’s first College of Photonics
2014 Established Taiwan’s first International College of Semiconductor Technology (ICST)

A Message from NCTU President
Mau-Chung Frank Chang

A university is not simply a collection of buildings on a piece of land; a university is a community with a steadfast commitment to the pursuit of knowledge and innovation. Great universities cultivate lifelong learning, equipping students with creativity, leadership, global vision, and executive ability. Great universities foster strong character and integrity, encouraging students and faculty to become role models and pillars of society. Great universities develop and train pioneers and leaders, challenging them to question the world around them and to find new solutions to advance society.

To elevate NCTU from a top university to a great university, I pledge to:
(1) Serve and lead NCTU by creating consensus and collegiality.
(2) Build a distinguished faculty of the highest caliber to carry on NCTU’s legacy.
(3) Lead the NCTU community to pursue truth, honor, integrity and new knowledge for the advancement of human life.
(4) Regard education as our livelihood, not just a job, further strengthening NCTU’s legacy through our students and alumni.
(5) Place the needs of faculty and students first, helping them to grow, develop, and perform at the highest level.
(6) Build trust among colleagues, empowering them to establish and collaborate on joint visions and objectives.
(7) Delegate responsibility and engage stakeholders in the decision-making process.
(8) Meet with faculty and students on a regular basis to hear their input.
(9) Take full responsibility of the overall outcome.

The United Nations Higher Education Objectives state: learn to be, learn to know, learn how to learn, learn how to deal with others. My ideal university education focuses on fellowship. For fellowship is the most effective way to fully explore and develop students’ talents.

My ultimate goal is to educate students to learn to rejoice, learn to execute, learn to self-reflect, learn to self-respect, learn to love oneself and others, learn to use tools, and learn a lifelong mindset.

In order to transform NCTU, I need the help of every faculty member, student, and staff. I know you share my passion and dedication in bringing NCTU to the next level. As the African proverb says:

“If You Want to Go Fast, Go Alone. If You Want to Go Far, Go Together”.
Let us Act Together, Let us Go Far!

President

Mau-Chung Frank Chang

National Chiao Tung University
National Chiao Tung University

History of the University

A University for the Modern Age: 1896-1960

National Chiao Tung University’s roots began with Nanyang College, founded in 1896 by Hsuan-Wai Sheng, Minister of Foreign Affairs of the Ching Dynasty. This college was China’s first university in the western style and became the Shanghai campus. Initially, the Nanyang College focused on humanities and law, and its goal was to bridge the culture gap between China and the West. Later, Nanyang College was renamed the Vocational College of Higher Education and became part of the Ministry of Post and Transportation. As one of the first modern institutions of higher learning in Asia, the college played a crucial role in training China’s future scientists, engineers, and industrial leaders.

The college later expanded to several campuses in Shanghai, Peking, and Tang-Shan. The Tang-Shan Railroad and Mining School was built by Yuan Shih-K’ai in 1905, and is the origin of the Tang-Shan campus. The Railway Management College in PePing was founded in 1909 and became the Peking campus. In 1921, the government combined these campuses and renamed the entire system as Chiao Tung University. The university underwent several name changes during the 1920s and 1930s and also experienced an expansion of its curricula. The Shanghai campus was divided into Railway Management and Civil, Mechanical, and Electrical Engineering departments. In 1930, it established 3 more departments: Mathematics, Science, and Chemistry. The university relocated several times, and the Shanghai campus was eventually dissolved in 1949 and reestablished in 1959. Under the support of China’s government, X’Ian Chiao Tung University was built in 1959. Chengdu Southwest Chiao Tung University was founded in 1972 as the continuation of the previous Tang-Shan campus. In addition, the evolution of the University’s campuses continued, and a new era of National Chiao Tung University was created with the opening of the Hsinchu, Taiwan campus in 1960.

Period of Reconstruction: 1950-1968

In the late 1950s, Dr. Lan Jen Chu, a renowned scientist and professor of the Massachusetts Institute of Technology, began developing an Electronics curriculum similar to that at MIT. Dr. Chu also invited renowned academicians from top-level American universities to provide lectures at the future NCTU campus in Taiwan.

In 1957, alumni of Chiao Tung University living in Taiwan and abroad recognized the importance of developing an electronics industry in Taiwan. Thus, several governmental ministers jointly recommended to the Executive Yuan that the University should be re-established in Hsinchu. The Executive Yuan appointed a committee under the chairmanship of University President, Hung-Hsun Lin of the former NCTU. A year later, in 1958, the Institute of Electronics was established in Hsinchu, with Dr. Hsi-Mou Li as its first director.

Other NCTU Firsts

1961 Installed the first digital computer and became a pioneer in the field of Computer Science
1963 Fabricated a ruby solid-state laser: Taiwan’s first laser
1964 Established the first Semiconductor Laboratory in Taiwan
1965 Finished making Taiwan’s first integrated circuit
1970 Educated the first Ph. D. in engineering in Taiwan: Dr. Chun-Yen Chang
1971 Implemented the first minicomputer
1973 Implemented the first medium-sized Chinese keyboard (world-leading)
1975 Implemented the first microcomputer system
1981 Implemented the first programmable industrial robot
1982 Invented the first automatic Chinese seal identification system (world-leading)
1984 Established the first national research center: Microelectronics and Information Systems Research Center
1988 Implemented the first autonomous land vehicle with computer vision
1990 Built Taiwan’s first millimeter-wave planar vibrator
With funding from the United Nations, agreements between the Ministry of Education of the Republic of China (ROC) and the United Association of International Telecommunications led to the establishment of the Telecommunication and Electronics Training Center (TETC) at our campus in 1961. The TETC played a major role in the technological foundation for Taiwan’s electronics industry by introducing computer technology, initiating television broadcasting, and manufacturing the island’s first transistors and solid-state lasers. In the following year, the Computer and Electronics Center was established as a result of the TETC’s success.

In 1968, Dr. Chu raised funding and collaborated with the existing Chiao Tung University Alumni Association in the U.S. to purchase microwave electronic equipment for the new university, thereby boosting NCTU as a leader in semiconductor research and computer science. With Dr. Chu’s assistance, the Lincoln Library at MIT also donated 6,000 books on electronics and related fields to the NCTU Library.

**University Expansion & Modernization: 1964-present**

In 1964, with funding from the Ministry of Education and the National Science Council, Dr. Chu set up a semiconductor laboratory, the first one in Asia. The laboratory produced the first wafer and the first IC chip in Taiwan. In 1965, Dr. Chu assisted in building up the undergraduate programs at NCTU and laying down the foundation for doctoral degree programs. At his behest, the Department of Electronics was divided into four separate disciplines: Electrophysics, Electronics Engineering, Electrical and Control Engineering, and Communications Engineering. This paved the way for NCTU to become the university with the most comprehensive and specialized training in the field of electronics in Taiwan.

In 1967, the Institute of Electronics was formally renamed the College of Engineering. As a pioneer of technological development in Taiwan and a provider of qualified higher learning for students in Science and Engineering, NCTU expanded steadily and grew into a multi-disciplinary university in the years following. Today, it is comprised of 10 colleges and one school with 21 departments that offer undergraduate and postgraduate programs in Engineering, Electrical and Computer Engineering, Computer Science, General Science, Biotechnology, Photonics, Management, Humanities and Social Sciences, Hakka Studies, as well as Law and Semiconductor Technology.

**Present and future**

NCTU emphasizes the integration of science and the humanities and the cultivation of well-rounded individuals by offering and encouraging interdisciplinary studies in several fields. The university continues to uphold the ideals of its founders in the education of tomorrow’s scientists, engineers, industry leaders and pioneers. As NCTU is located near several national laboratories and the Hsinchu Science Park, it is a leader in industrial collaboration and provides students with opportunities to work with top high-tech companies and to participate in cutting-edge technological development.

Since 1958, NCTU has developed under the leadership of ten former presidents (Hsi-Mou Li, Chiao-Kuang Chung, Hao-Chun Liu, Ching-Lai Shen, Nan-Hung Kuo, Ta-Nien Yuan, Chi-Fu Den, Chun-Yen Chang, Chung-Yu Wu, and Yan-Hwa Wu Lee) and current university president Mau-Chung Frank Chang. NCTU is firmly established as a top research university in Taiwan. It has attained notable successes in science and technology, and rivals some of the best universities in the world.

Since its establishment in Shanghai in 1896, NCTU has grown into one of the top universities in Taiwan, especially in the fields of Engineering and Computer Science. It is also recognized for its research and teaching excellence in Electrical and Computer Engineering, Computer Science, Engineering, General Science, Biotechnology, Management and the Social Sciences.

NCTU is the oldest university in Taiwan, and it continues to fulfill its original mission to cultivate the next generation of leaders through a diverse and holistic education. The university will continue to push the boundaries of knowledge with an integrated and interdisciplinary curriculum of teaching and research. With access to state-of-the-art facilities, NCTU aims to continue to encourage progressive and innovative technological research and development, training gifted young scholars to meet the challenges of globalization.
Campus Location

National Chiao Tung University (NCTU) is situated at the core of Taiwan’s high-tech industry, making it an optimal hub for technological practices and academic exchanges. NCTU is close to Hsinchu Science Park, which is home to more than 100 technology companies. NCTU and its wide scope of capacities, both in research and development as well as the cultivation of world-class technology talent, are indispensable resources for the science park. In addition, being neighbors to these powerful technology firms is a geographical advantage of NCTU.

NCTU has the advantage of academic-industrial networking with all the high-tech companies in Taiwan, and students can get opportunities to participate in joint projects with these companies for more solid professional training. Moreover, NCTU has a distinguished alumni network and nearly two-thirds of the CEOs and general managers of the outstanding companies in Hsinchu Science Park are NCTU alumni.
University Community

NCTU provides students with an excellent learning and research environment, outstanding teaching and research staff, a beautiful, state-of-the-art library, and the best research facilities available. NCTU boasts one of the most picturesque campuses in Taiwan, with delightful gardens, marvelous sculptures and artworks by prominent Taiwanese artists.

The university aims to promote a living-learning community that supports the growth of its students through cultivating intellectual and cultural activities. Participation in extracurricular clubs and associations is an essential part of a well-rounded university education. A bulletin covering a range of recreational activities is published on campus each week to keep the university community informed of upcoming events.

In addition, the library is well equipped with online and internet facilities that provide users with fast and comprehensive access to information. Combining technology, art and leisure, this multifunctional library also hosts exhibitions, concerts and performances.
Academic Divisions

• College of Electrical and Computer Engineering
• College of Computer Science
• College of Engineering
• College of Science
• College of Biological Science and Technology
• College of Management
• College of Humanities and Social Sciences
• College of Hakka Studies
• College of Photonics
• School of Law
• International College of Semiconductor Technology
Overview:

• In 1958, the Institute of Electronics was established; it was the first institute established at Chiao Tung University in Taiwan.

• In 1967, the Institute of Electronics was renamed the College of Engineering and proceeded to incorporate the Departments of Electrophysics, Electronics Engineering, Control Engineering and Communications Engineering.

• In 1968, it became the first institution in Taiwan with an accredited Ph.D. program in Electronics Engineering.

• In 1994, the College was divided into the College of Electrical Engineering and Computer Science (EECS), and the College of Engineering. The former became the first College in Taiwan to exclusively focus on the field of Electrical Engineering and Computer Science. It is the largest EE group among all universities in Taiwan.

• The college has more than 160 full-time academic staff, including three Fellows of Academia Sinica, who are also members of the National Academy of Engineering in the US, seven Optical Society of America (OSA) fellows, and 28 IEEE fellows (the largest number among Taiwanese universities).

• The EECS International Graduate Program, launched in 2008, is a program that integrates all the international graduate programs in the ECE and CS Colleges of NCTU. Lectures are offered in English in three concentrations: (System on Chip) SOC/IC Design, Communication Technology, and Photonics Biomedical Control.
Notable Research Institutions:
- Nano Facility Center
- Nanoscience Technology Center
- Brain Research Center
- Advanced Power Electronics Center
- NCTU-IBM Big Data Research Center
- Center for Science, Technology and Society

Research and Development:
- The college has long-term research collaborations with a number of prominent corporations, including United Microelectronics Company (UMC), Taiwan Semiconductor Manufacturing Company (TSMC), AU Optronics and MediaTek.
- The college and its research centers have received nearly NT$500 million in grants from government and NT$50 million in grants from industries.
- Over 60 ECE College faculty members actively participate in five of the Ministry of Education’s Top-University Research Centers, including four acting Center Directors.
- The college has conducted advanced research in a wide variety of fields, including microelectronics (materials and devices), integrated circuits and CAD design, communications networks and systems, microwaves and antennas, control systems and robotics, multimedia signal processing, power electronics/MEMS, biomedical engineering, lasers, optical communications, display technology, optoelectronic materials, optical storage, and optical design and measurement.

Achievements in Education:
- Ranked 51st-75th in the world by Shanghai Jiaotong University’s 2014 Academic Ranking of World Universities.
- Two-thirds of CEOs and general managers in the nearby Hsinchu Science Park are ECE alumni.
- Established student exchange programs with many universities around the world, including partnerships with the University of Illinois at Urbana-Champaign (UIUC), Carnegie Mellon University (CMU), Chalmers University of Technology, K.U. Leuven, TUM (Technische Universität München), SUPELEC (École supérieure d’électricité), TSP (TELECOM SudParis), University of Tokyo, and many others.
- In the past eight years, several dual-degree programs have been successfully conducted. Three NCTU doctoral students and 30 MS students completed their dual-PhD or dual-MS degrees at K.U. Leuven, SUPELEC, and TSP. In addition, 7 French TSP MS students did their dual-MS degrees at NCTU.
Research Centers
- Taiwan Information Security Center at NCTU
- Information & Communication Technology Lab
- MediaTek-NCTU Research Center
- NCTU/ITRI Joint Research Center
- III/NCTU Joint Research Center
- Network Benchmarking Lab (NBL)
- Computer Vision Research Center
- Information Technology Advanced Research Center (ITA)
- NCTU M2M/IoT R&D Center
- Data and Business Applications Research Center

Overview:
- In 2005, the Department of Computer Science and Information Engineering and the Department of Computer and Information Science were merged in the formation of Taiwan’s first College of Computer Science; the college contained one department and three institutes providing undergraduate and graduate degree programs.
- Aiming to incorporate future trends in advanced cutting-edge Information Technology studies, the college established four graduate institutes: the Institute of Computer Science and Engineering, the Institute of Network Engineering, the Institute of Multimedia Engineering, and the Institute of Biomedical Engineering (founded in 2007 and later moved to the College of Electrical and Computer Engineering in 2014).
- In 2012, the college and Academia Sinica of R.O.C. joined forces and launched a Ph.D. program in Networking and Information Systems.
- With this collaboration, the complementary expertise and knowledge, and the joint efforts of both sides, researchers can provide solutions to major science, engineering, and technological challenges confronting mankind worldwide.
- The college’s Globalization and Development Office aims to promote international
academic excellence and support activities involving international scholarly, administrative, and industrial visitors and students.

**Notable Achievements:**
- Ranked 35th to 50th in the world by Shanghai Jiaotong University’s Academic Ranking of World Universities from 2010 until now.
- The college has consistently been ranked at the top among all domestic computer science departments for the number of influential research results published, computer science and information technology contributions made, awards won, and graduate performance in job markets of all kinds.
- The college has more than 60 full-time faculty members, including one ACM fellow, six IEEE fellows, one JSPS fellow, and one National Chair Professor.

**Features:**
- The college and its affiliated centers conducted research projects with a total annual funding over US $7 Million from 2010 until now, mostly from the Ministry of Science and Technology and industrial collaborations. In other words, on average, each professor has over 2.5 projects.
- The college actively engages in industrial collaborations both locally and globally with companies such as MediaTek, D-Link, DELTA, Chunghwa Telecom, and Industrial Technology Research Institute (ITRI), as well as IBM, Intel, Cisco, and ARM.
- The college also offers student exchange programs, research cooperation, industrial internships, and dual degree programs in collaboration with several of the world’s most esteemed universities and companies.
Overview:
• Founded in 1967, the college has educated numerous graduates who have made an impact on Taiwan’s engineering industry over the past four decades.
• The college was reorganized to the present structure in 1994.
• The courses and programs in the college have been developed to balance fundamental theory and applied science.
• Presently there are three departments and one institute which are (1) the Department of Mechanical Engineering, (2) the Department of Civil Engineering, (3) the Department of Materials Science and Engineering, and (4) the Institute of Environmental Engineering.
• The college is one of the 4 top engineering colleges among more than 160 universities in Taiwan.

Features:
• There are three interdisciplinary degree programs, namely: (1) the Bachelor Degree Program of Nano Science and Engineering, (2) the Graduate Program of Science and Technology of Accelerator Light Source, and (3) the Master Degree Program of Sound and Music Innovative Technologies.
The college has highly qualified faculty members and among them more than 98% have earned their Ph. D. in the areas of their specialties. They are active in both teaching and research and also have close ties with local industry.

There are more than 90 faculty members and 2,400 students (1,000 undergraduate, 1,000 master’s, and 400 doctoral) in the college.

The college has annual research support of more than US $10 Million with about 200 externally funded projects. Each professor has, on average, 2.6 projects.

**Research and Development:**
- Energy Related Technologies (National Science and Technology Program)
- Bio-Medical Technologies
- Precision Engineering (Machining, Orbit Determination, and Gravity Application using GPS from the FORMOSAT-3 satellite)
- Disaster Prevention and Water Resource Environment (including recoverable energy)
The College of Science at National Chiao Tung University was formally established in 1979. The college is committed to providing fundamental education in science, achieving high-quality advanced research, and offering innovative applications at the forefront of science and technology. The college consists of three departments, seven institutes, and two special degree programs. Over the years, the college has been recognized as a renowned and significant incubator for cultivating competitive scientists. It has established an indispensable status in Taiwan’s advanced education and cross-disciplinary studies.
Cross-Disciplinary Research:

Functional Organic Materials:
The research covers organic optoelectronic devices including organic light emitting diodes, organic solar cells, and organic thin-film transistors. The research anticipates developing promising new materials for the above applications and making novel organic devices with high performance.

Spectroscopics and Dynamics:
The growth of nanocrystalline indium nitride (InN) on titanium dioxide (TiO2) substrates has been successfully carried out by the homegrown plasma enhanced chemical vapor deposition (PE-CVD) system. This type of system has the ability to convert sunlight to electrical power. Moreover, fluorescence up-conversion and transient absorption/reflectance techniques in the UV/VIS region have been applied to investigate sensitized materials to understand the dynamics of interfacial electron transfer.

Biomolecular Probe and Bio-Image:
The research aims to develop and apply nanotechnology and spectro-microscopy along with expertise from areas including materials science, optoelectronics, and semiconductors to explore novel bio-systems with fundamental importance and to develop an ultrasensitive biosensing platform and bio-imaging system.

Quantum Science:
The mission is to explore the quantum phenomena in emergent functional materials, including semiconductor nanomaterials (quantum dots/nanowires), diluted magnetic semiconductors, two-dimensional layer materials (graphene/graphene oxides/transition metal dichalcogenides), topological insulators and advanced complex oxides. State-of-the-art technologies are being developed in areas including material growth, device fabrication, spectroscopy characterization and theoretical modeling.

Mesoscopic Physics:
The objectives of the research mainly focus on nanoscale and mesoscopic (mesoscale) metal and semiconductor systems, low-dimensional strongly correlated electron systems, and matter under the extreme physical conditions of ultralow temperatures and high magnetic fields. Cutting-edge research in these directions will advance the understanding of the fundamental laws governing physical behavior in nanoscale and mesoscale structures.

Computation Science:
Various theoretical and computational techniques have been employed to elucidate mechanisms of chemical reactions, optical absorption spectra, solar cell and fuel cell fabrication processes, laser-matter interactions, non-adiabatic transition and tunneling processes, and the energy/electron transfer mechanisms in nanoscale devices, including QD-embedded hybrid solar cell systems.

In addition, the main research areas for Mathematics and Statistics are summarized as follows: (a) 3-D Imaging, (b) Medical Imaging, (c) Number Theory, (d) String study, (e) Computational Complexity, and (f) Big data research.

International Collaboration:
The College of Science is committed to explore and deploy research in the forefront of science and technology. To achieve the goal of excellence, the college reaches out to teach new generations, to encourage interdisciplinary research, and to enhance international collaborations. The college has developed collaboration plans with distinguished institutes, including Riken (Japan) and the Max-Planck-Institute for Chemical Physics of Solids (Germany), as well as many top-ranking universities in Asia, Europe, and America.
College of Biological Science and Technology

- Molecular Bioinformatics Center

Overview:
- The College of Biological Science and Technology was founded in 2003; currently it is comprised of the Department of Biological Science and Technology and two research institutes: Bioinformatics and System Biology, and Molecular Medicine and Bioengineering.
- The college’s foundation lies in the Institute of Biological Science and Technology, established in 1994, which became the Department of Biological Science and Technology in 1999.
- The Institute of Biochemical Engineering, established in 2001, amalgamated with the Institute of Biomedical Science (2006) to become the Institute of Molecular Medicine and Bioengineering in 2009; in the same year, the institute of Bioinformatics became the institute of Bioinformatics and System Biology.
- It is the first college of biotechnology in Taiwan with a Research Center of Bioinformatics. As a result, current excellent achievements in the fields of electronic engineering and computers at NCTU are being applied to biomedical research.
- The establishment of the college is a milestone for Taiwan’s academic research fields. It integrates scientists from the various fields of electronic engineering, mechanics, computational sciences, biochemistry, molecular biology, microbiology, biotechnology, and bioinformatics and incorporates them into an enormously powerful research team.
- The college communicates with academic institutions around the world. This includes international student exchange programs, collaboration with universities both foreign and domestic, and collaboration with industry.
Research Areas:
- Department of Biological Science and Technology: Biomedical-Engineering / Production of Biofuels / Clinical-Biochemical Engineering / Cell Biology and BioChips / Bioanalytical Chemistry / Molecule Anticancer
- Institute of Molecular Medicine and Bioengineering: Bioelectronics / Bio-Nanotechnology / Applied Microbiology / Cardiovascular Research / Neurobiology

Future Developments:
The specialized fields of Biophotonics and Protein & Enzyme Engineering will be developed into degree programs in the near future. Faculty and members of the college pursue international collaboration to develop future practical biotechnical products, such as biochips, biosensors, artificial vision and limb systems, and biofuels. The ultimate goal is to transform the college into a leading institute for bioinformatics and biomedical-related research in Taiwan.
Overview:

- The AACSB (Association to Advance Collegiate Schools of Business) accredited College of Management was established in 1970 in response to a growing need to provide management training in technology, engineering, and related fields.

- Similar to other colleges at NCTU, strong bonds exist between the College of Management and the Hsinchu Science Park (HSP). Many companies in the HSP actively recruit Management graduates; as a result, the college contributes efficient and innovative management operations to many of Taiwan’s businesses, especially in the high-tech industry.

- 54% of all college faculty members have Ph.D. degrees in the fields of Engineering or Science, and 98% of the college’s 80 full-time faculty members received their Ph.D. degree from distinguished universities in the US or around the world.
Organizations and Programs:
The college’s four departments and six institutes, located on both Hsinchu and Taipei campuses, offer undergraduate and graduate programs in General Management, Information and Financial Management, Operations Management, and Transportation Management.

Features:
• The College of Management has forged many partnerships and exchange programs with businesses and management schools worldwide, and has agreements with universities such as North Carolina State University, Washington University in St. Louis, the University of Groningen, Tilburg University, the University of Leeds, the University of Mannheim, and Yonsei University.
• The Global MBA Program, established in 2008, is a two-year full-time graduate program lectured entirely in English. It was the first Global MBA degree program offered in Taiwan accredited by the AACSB. The program admits 45 students each year and seeks to provide them with the training necessary to become leaders in international business. The students originate from more than 20 countries.
• The Executive Master’s of Business Administration (EMBA) Program was established in 1998 with intake of students from enterprise executives. The program courses are designed to provide: (1) Global Vision; (2) Innovation; (3) Flexible Integration; and (4) Technology-GIFT, matching the needs of management strategies for executives, and deploying suitable activities for executives.
• By actively advocating academic collaboration with Haas School of Business, UC Berkeley, and other innovative, renowned institutes, the program encourages and fosters multidisciplinary world-class enterprise activities in business as well as in education. Furthermore, the program induces and enhances demonstrable enterprise and economic impacts globally while keeping pace with contemporary Information Technologies.
Overview:
- The College of Humanities and Social Sciences was established in 1995. The college aims to teach students the creative and critical thinking skills required in the fields of Humanities and Social Sciences.
- The college has organized exciting initiatives, which include inviting experts with international experience, advising in the deployment of new fields of study, establishing joint programs with universities worldwide, promoting international exposure, as well as enriching the ever-growing curriculum via the introduction of courses like Regional Studies and Globalization.

Academic Units:
- The Department of Foreign Languages and Literature is associated with the Graduate
The Department of Foreign Languages and Linguistics.

Equal emphasis is given to language proficiency, literature, linguistics, and translation, providing students with an excellent environment for interdisciplinary research and education.

- The Institute of Communication Studies, established in 1991, places emphasis on the dimensions of media management, communication technology, and media culture.
- The Institute of Applied Arts has two main research areas: Industrial Design and Visual Communication Design. Both areas prioritize explorations in theory and practice with applications of science and technology in each field.
- The Institute of Music integrates the major disciplines in musical studies: Performance, Composition (including computer music and multimedia) and Musicology (both historical and cultural), such that musicians, theorists, and scholars can work together, discover their interdependence, and benefit from such interactions.
- The Institute of Architecture offers the best graduate program in design and digital media in Taiwan. It is geared to develop students in the fields of design, cognitive thinking, and digital media research.
- The Institute of Education (IED) primarily focuses on three pioneer research areas: Educational Psychology and Counseling, Science Education, and E-Learning. The goals of the Institute are to provide both graduate students and instructors with a multi-disciplinary learning environment and to offer the best opportunity for preparing future leaders and advanced researchers in education.
- The Institute of Teaching English to Speakers of Other Languages (TESOL), which has a close affiliation with the Language Teaching and Research Center (LTRC), was established to meet the growing need for better English teacher education, and integrates language teaching theory and practice with the latest educational technology.

Notable Achievements:
- A total of six Humanities and Social Sciences faculty members have won either Outstanding Research Project of National Science Council, the Outstanding Young Researcher Prize, or the Outstanding Talent Award.
- Two academic journals of cultural studies edited by SRCS colleagues, *Routers: Journal of Cultural Studies* and *Inter-Asia Cultural Studies*, have gained international recognition.
- Team "Unicode", a cross-disciplinary task force consisting of students and faculty members and led by Dean C. David Tseng, designed and built a sustainable house which won several awards in the Solar Decathlon Europe 2014 competition. The project, Orchid House, was awarded 1st prize in Urban Design, Transportation and Affordability; 2nd in Innovation; and 3rd in Energy Efficiency, as well as earning the People's Choice award. This showcases NCTU's commitment to the future and the achievement of excellence in research and design.
Overview:
• The College of Hakka Studies was established in 2004 following the mandate of a new governmental policy on multicultural studies.
• The ultimate goal of the college is to preserve the heritage of the roughly four million indigenous Hakka people in Taiwan.
• The Department of Humanities and Social Sciences offers courses in globalization, ethnic relations, history, gender studies, cultural policies and industries.
• The Department of Communication and Technology offers communication skills and media techniques in a curriculum designed to foster inter-community relations, multicultural awareness and Hakka culture.
• The International Center for Hakka Studies was established to integrate local and international studies in Hakka culture and to incorporate a curriculum that integrates culture, ethnography, technology and communications.
• In 2010, the college moved to a new campus located in Zhubei City, Hsinchu County. The location of the new campus was originally a traditional Hakka village, and it has much cultural heritage. The college is set to integrate modern educational systems and facilities with local and traditional cultural resources to create a better learning and research environment for Hakka culture, and humanities and social sciences at large.
Notable Achievements:

- In order to promote internationalism both inside and outside the university, the college has established exchange programs with universities such as the Radboud University Nijmegen in the Netherlands.
- The International Center for Hakka Studies plays a crucial role in developing cross-disciplinary research on Hakka policies, communities and oral history. In 2006, with funding from the Council of Hakka Affairs, the center was able to conduct a number of research projects focusing on the Hakka language, Hakka culture, and the history and identity of the Hakka community in Malaysia.

Features:

- The college strives to engage in interdisciplinary group projects in northern Taiwan around the greater Taoyuan, Hsinchu and Miaoli areas, and also works to expand Hakka studies to include Hakka communities in China, Southeast Asia, and the rest of the world.
- The projects of the college will be implemented gradually in collaboration with the Hakka College of the National Central University, the National United University, and international scholars in related fields.
- Scholars of non-Hakka studies will be invited to work with professors and to participate in large-scale group projects, both on- and off-campus.
- The International Center for Hakka Studies has initiated three group projects: "Hakka Language Studies", "Research on Hakka Society and Culture", and "Media Studies on Hakka Culture".
Overview:

• The College of Photonics was established in 2009 and aimed for close collaboration between NCTU and the photonic industries located in the Tainan Science Park. The Tainan campus, where the college is located and which can be easily accessed by the nearby Taiwan High Speed Rail, has been actively engaged in teaching and research since 2009.

• The College of Photonics is the first college of its kind in Taiwan to offer a multidisciplinary graduate program incorporating photonics, information technologies, lighting and green energies, and biomedical applications. Its mission is to integrate resources from NCTU alumni, local/international businesses, and researchers to promote photonic activities in southern Taiwan.

• The college was founded and is led by NCTU professors, with the land provided by the Tainan County Government, the administrative building donated by the Chi-Mei Corporation, and the laboratories and facilities donated by local companies, NCTU alumni, and friends of the university.

• The college follows the rich tradition of the Institute of Electro-Optical Engineering at NCTU in Hsinchu, which was first established in 1980.
The vibrant nature of the college provides a great platform to bridge the gaps between science and engineering, while at the same time, the research of the college remains focused on advanced photonic technologies. Thus, cross-disciplinary collaboration is encouraged and fostered. Through this collaboration, major shifts in paradigms can be achieved, and quantum leaps in human knowledge can be expected.

Special Features:
- Provide resources for interdisciplinary academic studies and collaboration with experts in various fields through the X-Photonics Interdisciplinary Center
- Pursue “X-Photonics,” where “X” represents the fusion of Electronics, Mechanics, Materials Science, Chemistry, Biology, and Medicine with Photonics
- Cultivate a strong partnership between the college and industries, located in the Tainan and Kaohsiung Science Parks, with the goal of benefit for both the university and industries
- By using the university’s rich experience, raise the awareness of practical issues in technology transfer and intellectual properties
Overview:
The NCTU School of Law was originally established in 2000 as the Institute of Technology Law (ITL). Since then, the institute has gradually become the nation’s center for the study of intellectual property and technology law. It has become a tradition that the annual “National Technology Law Conference” be held here at NCTU. Every year, hundreds of scholars and legal professionals, as well as business managers and government officials gather at NCTU to discuss a wide range of topics from intellectual property (IP) laws to business strategies.

Though relatively young, the law school is one of the most sought-after by both public and private sectors in Taiwan. Over 50% of the founding judges on the Taiwan Intellectual Property Court are alumni, and around 90% of IP professionals working in the nearby Hsinchu Science Park are trained by the law school. Although NCTU School of Law was built upon solid and profound research on intellectual property rights, in the past decade, it has gone beyond IP research and has made remarkable achievements in many other fields. The expertise of current faculty members includes:

- Intellectual Property Rights and Knowledge Venture
- Business Law and White-Collar Crime
- Gender Equality, Labor Rights and Social Justice
- Biotech and Health Law
- Transnational Law and International Negotiation
- Information and Communication Law

LL.M. Program (Master of Laws):
The LL.M. program is for students with or without a legal background. Students normally take three years to complete the coursework and finish a master’s thesis. Admission to the LL.M. program is highly competitive, and every year, only 30 full-time and 18 part-time students are recruited.
Six major certificate programs are offered for students to pursue, including Intellectual Property Rights, US Law, Biotechnology and Medicine, Legal Studies in English, Dispute Resolution and Conflict Management, and Fundamental Laws. However, students may also tailor a selection of courses that fits their needs.

The US Law and Legal Studies in English programs provide solid training for students who wish to work in an international environment or pursue a law degree abroad. Efforts to establish an English learning environment are reflected in the achievements of the students; students have been hired by international law firms located in Hong Kong right after graduation, and around 30% of graduates have gone on to earn a second LL.M. in one of the top 10 US law schools.

At NCTU Law, training extends outside the classroom. The school is the first in Taiwan to collaborate with courts and prosecutors’ offices to establish internship programs, and the program has now been extended to law firms, NGOs, and international organizations.

Faculty:
There are 13 full-time faculty members in the law school. Faculty members hold advanced degrees from distinguished universities around the world. The diverse adjunct faculty consists of experienced judges, prosecutors, attorneys, and entrepreneurs. Together, they provide a full-spectrum learning opportunity for students.
Overview:

Founded in August 2015, the International College of Semiconductor Technology (ICST) is the first professional international college of semiconductor technology in Taiwan. National Chiao Tung University (NCTU) is renowned for seeding the development of semiconductor technology in Taiwan, which is essential for the success of its modern IC industry. Located on the main campus and serving as the hub of research activities related to semiconductor technology at NCTU, the ICST encourages multidisciplinary collaboration with academic departments across NCTU as well as with industries nationwide, particularly those located in the Hsinchu Science Park. In addition to pursuing excellence in research at the international level, the college is committed to cultivating young talent with views of globalization and industrialization through various exciting programs at the international level.
Features:
• Complete English Environment
• International Joint and Dual Degree Programs
• International Research Cooperation Programs
• Industry-University Research Cooperation Programs
• Joint Professorships with World-class Scholars

Research Facilities:
• Metal organic chemical-vapor deposition (MOCVD)
• E-beam writer
• Process line (E-gun evaporator/ICP etcher/Sputter/RIE/PECVD/Aligner)
• Package equipment (Flip-chip bonder/Wire bonder/Automated die attach)
• RF testing equipment (RF probe station/S-parameters measurement)

Major Research Topics:
• III-V/Si integration for Post-CMOS applications
• High frequency InxGa1-xAs HEMTs for submillimeter wave applications
• Epitaxy growth and device fabrication of GaN-on-Si for high power applications
• GaAs and GaN high frequency devices for satellite and wireless communications
Research Resources & Collaboration

Surrounded by seven national research centers and laboratories, NCTU offers students opportunities to participate in leading technology experiments, practical training, and internships. The Hsinchu Science Park is close to the main Kuang-Fu campus. This close proximity has created many unique opportunities for collaboration with NCTU and the following organizations.

**National Nano Device Laboratories (NDL)**
The NDL is located in the Hsinchu Science Park and is under the administration of the National Applied Research Laboratories. Since its establishment in 1988, NDL has been dedicated to supporting academic research in developing advanced semiconductor processing technologies and cultivating semiconductor talent needed by industry.

**National Chip Implementation Center (CIC)**
With a view to making Taiwan a leading player in the global semiconductor market, CIC continues to focus on developing human resources and advanced technologies. To achieve these objectives, CIC concentrates its efforts in the following areas:
- Providing an IC/System design environment
- Providing chip fabrication and measurement services
- Promoting technology for IC/System design and international collaboration

**National Synchrotron Radiation Research Center (NSRRC)**
The NSRRC provides advanced light source and synchrotron radiation tools. Over 70 synchrotron radiation facilities have been constructed worldwide with applications in scientific research and industrial R&D.

**National Space Organization (NSPO)**
The NSPO envisions itself to be a top-notch research organization, a major space agency in Asia, and an important member of the global space community. Its mission includes establishing self-reliant satellite technology, conducting world-class space science research, and promoting satellite applications.

**National Center for High-Performance Computing (NCHC)**
The NCHC is one of 11 national-level member laboratories and a major operating component of the National Applied Research Laboratories (NARL). The NCHC is the only national laboratory to provide integrated High Performance Computing (HPC), networking, and storage services in Taiwan.

**National Measurement Laboratory (NML)**
NML has established national measurement standards in the fields of electricity, magnetics, microwaves, luminous intensity, temperature, humidity, chemistry, vibration, acoustics, dimensions, mass, force, pressure, vacuum, and flow. Based on well-established national standards, extensive calibration services are made available to industry.
Introduction
To strengthen cooperation between academia and industries, the Technology Licensing Office and the Innovative Incubation Center were combined into the CAIC in 2010. Through one single service window, the center efficiently and effectively integrates IP management, technology licensing, and incubation affairs.

Strategic Approach in Government and in Business
- Partnership with Ministry of Science and Technology (MOST) and Ministry of Economic Affairs (MOEA)
- Partnership with venture capitalists and industry to establish platforms for information exchange
- Partnership with professionals to support incubating start-ups and technology transfer
Elite Research Centers at NCTU

A total of seven elite research centers have been established at NCTU to promote and to coordinate international and interdisciplinary academic research. Research programs are mostly supported by the Ministry of Education’s (MOE) “Aiming for the Top University” (ATU) program. NCTU research groups drive forward with innovative and groundbreaking research which augments contributions to and strengthens the impact on the expanding fields of interdisciplinary research.

The elite research centers at NCTU are virtual organizations, which helps to introduce more opportunities in academic and industrial fields. This offers an interface to promote discussion and to encourage intensive collaboration across disciplines. With the support of the ATU program, these centers thrive to recruit the best research staff and to update facilities and equipment for NCTU to become one of the top universities in the world.

Emerging Nanoelectronics and System Research Center (eNES)
The eNES Center is based on the nano-electronics technology and system core team from the Nanoelectronics and System Research Center (NESRC) at NCTU under the 2nd term MOE ATU program. There are two major categories, namely (i) Emerging Devices and Materials and (ii) System Integration and Application, where the former focuses on emerging Si-based devices/materials, and nano-structure based meta-materials/devices, and the latter focuses on tera-Hz circuits/systems and green computing/storage IC’s for smart sensing and big data analysis. In the past few years, under the funding support of the MOE ATU program, NCTU has achieved the ranking of World Top 10 Research Center in Nano-electronics, as evidenced by publications in the most authoritative journals and presentations at top conferences in relevant fields.

Intelligent Information & Communications Research Center (I2CRC)
To tackle the fast innovation of Information Communication Technology (ICT), I2CRC has taken the initiative to propose and lead the national level of SDN, Internet of Things (IoT), and Big Data programs over 4G/LTE and 5G. The IoT program has produced the first international standard compliance IoT testbed. The SDN project’s main focus is WAN, and it expects to come out with an end-to-end platform to fulfill the needs of domestic SDN players in the eco-system. The center has formed a research center with IBM, NCTU-IBM intelligent IoT (iIoT), to solve the IoT and Big Data applications including 5G traffic, healthcare of senior citizens, and smart campus. In addition, this center has performed significantly well in the academia-industry collaboration and technology transfer and licensing of ICT developed by I2CRC.

Frontier Photonics Research Center
The core team of the center consists of professors and researchers from four Taiwan universities: NCTU, NCU (National Central University), NTHU (National Tsing Hua University) and NYMU (National Yang-Ming University). The center has recruited internationally-recognized scholars as the principle investigators. The program is based on the expertise in photonics that has been built up over the years at the four universities. The center comprises over 100 top-tier photonics researchers, many of whom are accomplished scientists and researchers. The combined team of NCTU, NCU, NTHU and NYMU provides the opportunity for further collaboration and synergy to optimize research output and for leading world-class photonics research.
In recent years, the Biomedical Electronics Translational Research Center (BETRC) at NCTU has focused on implantable neural prosthetic devices/systems through cross-disciplinary research teams including medical doctors, scientists, and engineers. The BETRC has five on-going major projects on self-powered sub-retinal prosthesis, closed-loop epileptic seizure detection and stimulation, bone-guided cochlear prosthesis, intraoperative neurophysiological monitoring systems based on non-contact direct stimulation and recording of spinal cord pathways, and brain computer interface-mediated interactive upper-limb rehabilitation systems. Moreover, the BETRC invites partner universities to form the most integrated engineering-medical joint research platform in Taiwan. The center also promotes international collaboration with top research centers, institutions and enterprises worldwide. The vision of the BETRC is to form a perfect breeding ground for medical device start-up companies and industry in Taiwan.

**Center for Interdisciplinary Science**

NCTU has recognized the importance of fundamental science and has exerted substantial effort in upgrading the College of Science. As a result, the Center for Interdisciplinary Science (CIS) was established in 2006 to integrate professors in physics, chemistry, biotechnology, and nanotechnology in order to contribute significantly to the fundamental research of novel materials for renewable energy, bio-sensing and bio-imaging, and special properties associated with mesoscopic and quantum materials. CIS has become a role model for research centers in the MOE ATU Program.

**Brain Research Center**

Under the umbrella of the University System of Taiwan, the Brain Research Center (BRC) of NCTU is part of a cross-disciplinary brain research team comprising NYMU-BRC, NCU-BRC, and NCTU-BRC. NCTU-BRC is a pioneer in the application of IT technologies in brain research, and the NYMU-BRC has been able to successfully coordinate and integrate the above-mentioned research units. In addition, all three centers provide major innovative biomedical technologies for brain research.

**Disaster Prevention and Water Environment (DPWE) Research Center**

The Natural Hazard Mitigation Research Center, founded in 1998, was affiliated with the NCTU College of Engineering. The center was granted university affiliation and renamed the “Disaster Prevention and Water Environment Research Center” (DPWE) in March 2009. The center has integrated cross-disciplinary academic areas related to disaster prevention and water environmental technologies.
Nano Facility Center

Mission and Accomplishments
In the 1960s, through funding support from the United Nations Special Fund, NCTU’s Institute of Electronics founded the “Far-East Communication Training Center”. This germinated the foremost academic research of NCTU in semiconductor science and technology, and most importantly, launched the great success of modern microelectronic IC industry in Taiwan. Then, NCTU began gathering worldwide, top-frontier scientists and talent to engage in pioneering R&D in modern microelectronics technology. This led to the later founding of the “Semiconductor Research Center (SRC),” the predecessor of the Nano Facility Center (NFC).
A core mission of the SRC/NFC is to push the boundaries of the state-of-the-art current capabilities in micro-/nano-fabrication available to users in both academia and industry. To this end, the SRC/NFC has pursued advanced micro-/nano-fabrication and characterization instrumentation for advanced micro-/nano-fabrication capabilities. In 1964 and 1965, the SRC successfully demonstrated the first planar transistor and IC in Taiwan, respectively. Furthermore, since its inception approximately half a century ago, thousands of high caliber individuals have gone through the training programs and utilized the platform of the SRC/NFC for their research. Many of them have since become the top leaders in numerous renowned companies and been pivotal to the successful development of the IC industry in Taiwan.

Service and Training
Currently the NFC is equipped with approximately 20 advanced processing and characterization instruments available for service, and hosts equipment owned and operated by individual professors in numerous fields of study. Each year approximately 500 students enroll in and complete the training programs conducted by NFC.

Research Activities
Conducted at NFC
For decades, NCTU has been renowned for research achievements in the field of solid-state physics and devices. Major research subjects are listed below along with two outstanding examples:
- IC Technology
- Optoelectronic Devices
- Flat-Panel Display Technology
- Biologic Chip Technology
- MEMS Technology
- Emerging Nano Devices
- Advanced Material Studies

Nanowire Transistors
3D NW transistors are able to boost the electrical performance, packing density, as well as circuit functionality for an IC chip (Courtesy of Prof. H.-C. Cheng)

RRAM
Flexible resistive-switching random access memory (RRAM) made by reactive sputtering TiO₂ thin film. (Courtesy of Prof. T.-H. Ho)
Internationalization

NCTU has an increasingly internationalized campus and attracts students from more than 60 countries. As the university continues the drive for internationalization, it is constantly looking for opportunities for collaboration and exchange in all areas.

International Cooperation

- Expanding the international student body
- Increasing participation of foreign professors, students, and research fellows in joint research projects, education, and exchanges
- Promoting industry-university collaboration: Encourage local and foreign industry/government/academic cooperation and establish the international development of Taiwan academia, education, and industry

Internationalized Campus

- English-lectured courses are offered in all colleges
- Documents, posters, maps, and signs have been converted to English-Chinese dual languages
- Chinese language courses are available and free for international students

English-medium Programs:

- EECS International Graduate Program
- Global MBA Program
- International Master of Science Program for Interdisciplinary Molecular Science of Materials and Chemical Biology
- International Ph.D. Program in Photonics (UST)
- International Ph.D. Program in Interdisciplinary Neuroscience (UST)
- Graduate Program, International College of Semiconductor Technology
- International Ph.D. Program in Environment Science and Technology (UST)

Office of International Affairs (OIA)

The OIA is dedicated to promoting the internationalization process and enhancing the global presence of the university. As a part of its commitment to internationalization, the university is expanding partnerships with leading industries and prominent academics and research institutes around the world. To date, NCTU has established international collaboration with over 200 schools, including exchange programs, dual degree programs, joint research projects, as well as practical trainings and internships.

One example of international collaboration is with Chalmers University of Technology. The establishment of the NCTU Europe Office, which was set up in 2003 in Sweden to assist exchange students from Taiwan, and the Chalmers International Taiwan Office (CITO), where Chalmers’ students run a small office on NCTU’s campus, is a part of this special exchange program. The goals are to invite students to events inspired by the cultures and traditions of each country.
Overview

The Chinese Language Division, a unit under the Language Teaching and Research Center (LTRC) of National Chiao Tung University (NCTU), was founded in 2005 aiming to offer Mandarin courses to international students of NCTU, foreign professionals from companies in the Hsinchu Science Park, non-Chinese English teachers, and others.

Each semester, numerous courses ranging from beginner to advanced level are offered. These courses help students learn Chinese systematically in order to deal with the language problems encountered at work and in their daily lives.
Features & Notable Achievements

Learning Chinese is a key to success for active students who wish to complete their degrees at NCTU and for foreigners who plan to work with local business partners, to understand financial dealings of Taipei’s stock exchange, or to negotiate trade deals with world famous companies in Chinese speaking countries.

The Chinese Language Division provides easy access for international students and foreigners to experience productive language learning and rich Taiwanese culture through Mandarin language immersion. Oral communication is emphasized and real-life situations are simulated with multimedia aids. Computer word processing tools are used to teach Chinese character input and editing for writing abilities. E-learning online platforms and interactive language websites extend learning beyond the classroom.

The faculty of the division is professional, experienced, certified, and devoted. Volunteer teachers provide extra tutorials for extra Chinese learning practice. Instruction is based upon traditional Chinese characters, and Pinyin is applied to pronunciation.

In addition to credited courses, multiple activities have been designed to immerse students in Chinese learning environments out of class. These activities include recitation and song contests, theme-based learning circles, a calligraphy competition, one-on-one tutoring sessions, and cultural exploration field trips.

With professional and experienced faculty, a well-designed curriculum, and multi-theme based activities, the Chinese Language Division provides an optimal Chinese learning environment for international students and foreigners in the Hsinchu area.
University System of Taiwan (UST)

The University System of Taiwan (UST) was initiated in October 2002 and formally established, jointly, in January 2008 by National Chiao Tung University (NCTU), National Central University (NCU), National Tsing Hua University (NTHU), and National Yang-Ming University (NYMU). It is the first integrated university system in Taiwan developed in order to share resources, to enhance teaching quality, and to integrate research strengths.

Educational cooperation among universities in the UST consists of campus network infrastructures, library resource integration, and education development programs. The UST campus network infrastructure encompasses the following: providing digital education networks, offering cross-campus courses and distance learning (>4800 students/year), supporting the Open Course Ware Consortium (124 courses, 2-million visitors), and facilitating compatible computer network configurations for each UST campus. In addition, the UST aggregates universities’ library resources. For instance, it contains 5.84 million books and 248,385 e-Journal articles; it unifies the contents of periodicals for the universities; and the UST collects approximately 70,000 electronic theses and dissertations. Furthermore, the UST consolidates education development programs including: joint graduate programs, student extracurricular activities, and international graduate studies in Neuroscience, Inter-Asia Cultural Studies, and Photonics.
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