

No.43, Sec. 4, Keelung Rd., Da'an Dist., Taipei 106, Taiwan (R.O.C.)  
<http://www.ntust.edu.tw>

# NATIONAL TAIWAN UNIVERSITY OF SCIENCE AND TECHNOLOGY



# AN INTERNATIONAL APPLIED RESEARCH UNIVERSITY PRODUCING GLOBALLY COMPETITIVE HIGH-TECH AND MANAGEMENT PERSONNEL TO BUILD THE FUTURE OF OUR NATION AND SOCIETY

The National Taiwan University of Science and Technology was founded on August 1, 1974, as the National Taiwan Institute of Technology (NTIT). It was the first higher education institution of its kind within our nation's technical and vocational education system.

On August 1, 1997, NTIT was upgraded to university status and changed its name to the "National Taiwan University of Science and Technology," also known as "Taiwan Tech." At that time, the school reorganized itself into the five colleges of engineering, electrical and computer engineering, management, design, and liberal arts and social sciences.

Our vision is to build Taiwan Tech into an international applied research university producing high-tech and management personnel with the ability to compete on a global level, thus supporting the future growth of our nation and society.

Our overall goals are to employ multifaceted excellence, innovative expertise, technology integration, and holistic education on the platforms of intelligent green building technology and creative design, while recruiting internationally-renowned professors to help us achieve cutting-edge breakthroughs in all aspects of our teaching and research. This will inspire the development of the entire university, neighboring academic and research institutions, and local industry in the upgrading of our national ability to compete on a global stage.



**TAIWAN  
TECH** Since 1974

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College of Engineering

College of Electrical Engineering and Computer Science

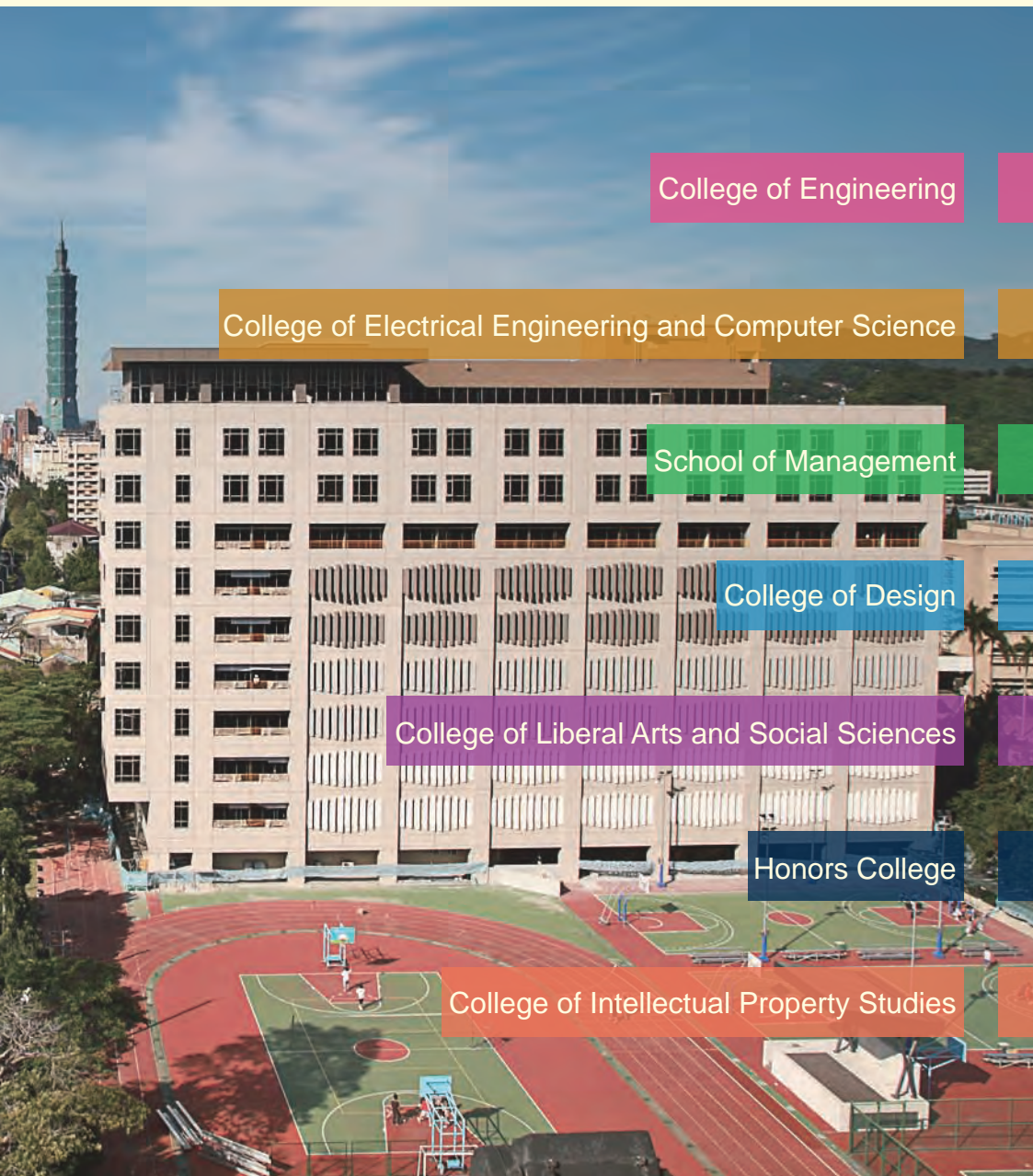
School of Management

College of Design

College of Liberal Arts and Social Sciences

Honors College

College of Intellectual Property Studies



# College of Engineering

The College of Engineering (CE) consists of four departments with both graduate and undergraduate programs, namely Mechanical Engineering, Materials Science and Engineering, Construction Engineering and Chemical Engineering, the Graduate Institute of Automation and Control, and the CE Undergraduate Honors Program. The College currently has 143 full-time faculty members, along with 354 doctoral students, 1,190 master students, and 1,838 undergraduates.

## Department of Mechanical Engineering

The department focuses on the national key industries, including Precision Mechanical Engineering, Semiconductor and Opto-electronics, and branches into various directions in the mechanical engineering fields. The education features a balanced combination of theoretical fundamentals and hands-on practices; the students are expected to become the elite engineers in the industry after graduation.

## Department of Materials Science and Engineering

The department contains three main research fields including organic materials, materials processing and inorganic materials. Recently we recruit international students, provide postgraduate courses in English and carry out international collaboration projects and organize conferences. Based on these efforts, the targets of department are to create global environments, to develop sharp eyesight and to enhance competitive abilities.

## Department of Construction Engineering

Our teaching goal is to assist students to possess: 1) professional knowledge; 2) innovative ideas for research; 3) skills in fields, integration and coordination; 4) engineering ethics, social responsibility and sustainability concept. Researches aim to integrate multidisciplinary knowledge with engineering practice to enhance construction technology, productivity and quality in East Asia. Our cutting edge researches include information technology, ecological, disaster prevention and sustainable engineering.

## Department of Chemical Engineering

Research interests of our faculties can be divided into four fields: interface and nanoscience, optoelectronic and energy materials, molecular science and engineering, environment and clean production technologies. We have, in the past, demonstrated good research capacity among fundamental science and engineering that are correlated to industrial applications. We look forward to building stronger linkage with our alumni and manufacturing sector, so that high quality vocational education will be achieved.

## Graduate Institute of Automation and Control

Graduate Institute of Automation and Control (GIAC) was founded for cultivating the high-level professionals in response to the needs of automated manufacturing system development. There are seven full-time faculty members conducting strong teaching and research activities covering the intelligent control, sensing, robotics, automated optical inspection, and opto-mechatronics. GIAC also promotes the cooperation with the global academic communities to broaden the vision of our students.



# College of Electrical Engineering and Computer Science

The College of Electrical Engineering and Computer Science(CEECS) was established in August 1998 to educate future leaders in the rapidly evolving professions in related industries. With its excellent track record in internationally-recognized research achievement and innovative technologies, the CEECS of NTUST is the 2nd largest college and ranks the top 5th in academic performance among the universities in Taiwan.

## Department of Electronic and Computer Engineering

The Department aims to educate highly-qualified engineers and researchers with professional delicate design and manufacture capabilities within the scope of a global view. To attain this, the curriculum puts emphasis on both theory and practice. The department, divided into the Computer Engineering Group, the Electronic systems Group, and the Opto-Electronics and Semiconductor Group, has a close relationship with the industry and academia, and has produced numerous state-of-the-art accomplishments and practical applications in various facets of electronic and opto-electronic fields.

## Department of Electrical Engineering

The Department was founded in 1978. With multi-million USD research budget from government and industry, the department is renowned for its focus on: Power and Energy, Power Electronics, System Engineering, Integrated Circuits and Systems, Computer and Network, and Communication and Electromagnetic Engineering. The mission of this department is to educate highly qualified, well-rounded, and motivated future professional leaders who can provide service to Taiwan, Asia, and the World.

## Department of Computer Science and Information Engineering

The main objective of our department is to train students with equal emphasis on theory and practice of computer science and information engineering. Major research areas of our department include multimedia network, artificial intelligence, and information security. The achievement in these research areas includes numerous research papers published and numerous industry-university contracts awarded. Our department is also sponsored by top research centers, national telecommunication projects. Our department serves as one of the most important research centers which combine theory and practice while providing students a world-class learning environment in Taiwan.

## Graduate Institute of Electro-Optical Engineering

The Graduate Institute focuses on the research of image display and lighting, optical communication, optoelectronic semiconductors, and nano technologies. The institute works closely with the government, industry and academia, and the joint endeavors among them have produced many fruitful outcomes and cutting-edge technology innovations. With an aim to globalization, the institute also puts special emphasis on international cooperation opportunities.



# School of Management

School of Management is committed to high quality education and applied research, emphasizing management skills, methods and processes, thereby expecting our graduates to have a global perspective, to be socially responsible, and to acquire experience in innovative applications with technology and industry focus.

## Department of Industrial Management

The department is to teach and research relevant IM applications in science and technology; and to train people in the operation and management needed in enterprise development. The most distinguishing feature is to satisfy business enterprise's demands for efficiency, information and globalization. Current courses cover management concepts and strategies; and e-business solutions to transform tradition manufacturing industries into service-oriented organizations.

## Department of Business Administration

The department was founded to meet the requirements of both industrial and educational needs of Taiwan. We offer courses covering Human Resource, Strategy and Marketing and also make a close combination between theory and practice. In addition, we emphasize the importance of global perspective and humanity through a variety of English and Philosophical courses.

## Department of Information Management

The missions of this Department are: (1) to teach students principles on information management, emphasizing equally on information technologies and management skills and (2) to train students to be ahead thinking managers who can ethically practice information technologies to leading-edge business.

## Graduate Institute of Management

Our PhD and EMBA programs are designed for experienced senior managers and offer innovative curricula arranged to accommodate the working professional. These programs offer challenging classroom experiences, networking opportunities, a sense of community and world-class teaching from top-notch faculty who are excellent in their abilities and committed to their research and teaching.

## Graduate Institute of Finance

The Institute was established in 2002 offer a variety of finance-related programs that suit individual needs. Our goals are to prepare students for a wide range of careers both inside and outside the financial industry, including financial engineering and risk management, quantitative asset management, macroeconomic and financial forecasting, quantitative trading, and applied research.

## MBA Program

The MBA Program is committed to providing a cutting-edge graduate business education. It is divided into two areas: Global Business Management and Innovative Service and Design. GBM courses will be offered in English, and mainly consist of international students. The program draws on the specific strengths of each department and graduate institutes from the School of Management.

# College of Design

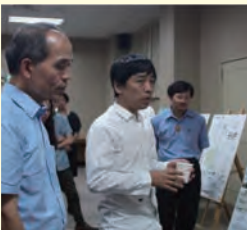
The College of Design at Taiwan Tech is regarded as one of the best in Taiwan. It is part of a top-ranked national university, located in the vibrant city of Taipei, with well-respected faculty members, and talented, diverse, highly motivated students. The combination of these conditions makes the college an excellent learning environment for future architects and designers.

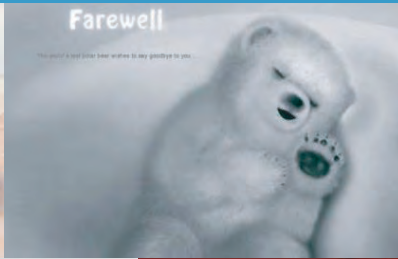
## Department of Architecture

The Department of Architecture places high emphasis on both design and building technology. There are currently 16 full-time faculty members in the department, conducting design projects in urban, architectural, interior, and detailing scales design and research in computer application, green technology, safety for daily living, management, planning, history, and design theory. Each year, the under-graduate master's, doctoral and professional master's programs accept about 120 new students. The Department is aiming to prepare our students in a well-rounded environment focusing on building their future competitiveness and equipping them with the abilities of creative thinking and humane insight.

## Department of Industrial and Commercial Design

The Department of Industrial and Commercial Design teaches students to gain a global perspective and develop local culture thinking in design theory and practice, with the aim to create a diverse learning environment. Our academic planning encourages research in innovative design such areas as Product Design (Industrial Design), Visual Marketing Design (Commercial Design), Interactive Digital Media Design (Information Design), and Design Management. All specialty courses are designed to integrate with faculty members and stride toward a diverse education with distinctive features. Ranked first among design school in Taiwan, NTUST also received international recognition from iF and Reddot Design Awards in 2011, placing first in the world among participating design universities. Students from DICD have been awarded numerous awards from international competitions that include SIGGRAPH, IDEA, iF, Reddot, D&AD for works in animation, product design, visual communication design, and interactive design.





### BLIND TOUCH

New Vision for the Visually Impaired

1. Focus on making the most accessible for the visually impaired with other ways. "Blind Touch" is a product that can help the blind to recognize objects without touching them. The product is made of plastic and has a small touch sensor and a small display screen. This can help the blind to recognize objects without touching them. The product is made of plastic and has a small touch sensor and a small display screen.
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### CUBIC TRAGEDY

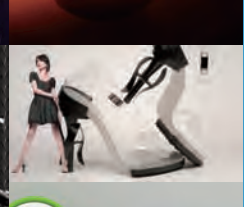
Story: Chun-Wang Sun  
Director: Ming-Yuan Chiu



The products are designed to meet different needs according to the color, shape of storage and color.

Dimensions and Material:  
Folder: 200mm x 300mm  
Calculator: 100mm x 150mm

# GRADUATE INSTITUTE OF DESIGN





# College of Liberal Arts and Social Sciences

The College of Liberal Arts and Social Sciences was established on August 1, 1998. It consists of the Department of Applied Foreign Languages, the Graduate Institute of Digital Learning and Education, the Department of Humanities and Social Sciences, and the Teacher Education Center.

## Department of Applied Foreign Languages

The Department of Applied Foreign Languages (AFL), established in 1998, currently offers four degree programs - a four-year Bachelor's degree program, a two-year Bachelor's program (open to students holding an A.A., or equivalent), a night school Bachelor's program for working adults, and a Master's degree program.

Objectives:

- Cultivating specialists in English Teaching.
- Cultivating specialists in translation & interpretation.
- Cultivating specialists in ESP.

## Graduate Institute of Digital Learning and Education

Graduate Institute of Digital Learning and Education (GIDLE) aims to promote research in "diversity and excellence", "technology integration", "knowledge innovation" and "holistic education". The objectives of GIDLE include:

- To prepare academic researchers and to promote the research development in digital learning and education.
- To enhance teachers' information literacy and technology integration ability to promote innovative curriculum and instruction.
- To prepare the leaders of the industry of digital learning, content and curriculum design.

## Department of Humanities and Social Sciences

The major duty of the Department of Humanities and Social Sciences is to design the curriculum for the entire university in such areas of study as Chinese, History and General Education. General Education courses are grouped into 3 broad areas: Humanities, Social Sciences and Natural Sciences. The major subject areas covered include law for science and technology, sociology, psychology, appreciation of music and art, and philosophy.

## Teacher Education Center

The Teacher Education Center's commitment is to develop exemplary secondary school teacher education program to prepare high quality secondary school teacher candidates. At present the center enrolls 90 undergraduate and graduate students each year from all departments within the university. Students who fulfill the requirements of pre-service teacher training will be qualified to take the National Teacher Certificate Exam which allows them to teach in junior or senior high schools, including vocational senior high schools.

# Honors College

The Honors College at NTUST was established in February, 2008. In order to adapt to the rapid evolution of technology and environment, it has conducted an advanced concept of "later decision on the majors" for bachelor students. The Honors College recruits internationally renowned scholars and they are given full support to build up their own research team.

## Inter-Disciplinary Bachelor's Program

The main purpose of the Inter-Disciplinary Bachelor's Program (IDBP) is to cultivate multi-intelligence students who are from a great diversity of backgrounds as the following:

- General high school students with outstanding academic performance.
- General high school students with significant performance on sports.
- Vocational high school students with an exceptional skill.
- Vocational high school students with outstanding academic and skillful performance.

## Graduate Institute of Applied Science and Technology

The Graduate Institute of Applied Science and Technology was established in 1979 and originally named the Graduate Institute of Engineering. The Institute offers master's and/or doctoral programs in the following professional fields: Applied and Theoretical Chemistry; Biomedical Engineering; Science Education and Learning; Color and Illumination Technology; Technology Policy and Law Group; Nanotechnology and Energy Science; and also an academic doctoral program in Materials Science and Engineering.

## Graduate Institute of Biomedical Engineering

Biomedical engineering is a diverse multidisciplinary field that is establishing itself as an independent engineering discipline. Our cutting-edge research programs span a wide range of new interdisciplinary engineering discoveries and biomedical applications. From understanding the human genome to pioneering surgical tools, we are committed to the advancement of research and education in regenerative medicine, nano-medicine, bioinformatics, biomedical imaging, medical image analysis, miniaturization sensing technology, noninvasive measuring technology, wireless transmitting technology, orthopedics/rehabilitation, dental biomechanics and bio-fluid mechanics.

## Graduate Institute of Color and Illumination Technology

Color and Illumination Technology, covers Optics, Electronics, Information, Physiology, Psychology, Human Factor, Design, etc. fundamental disciplines, is a typical example of science-technology integration. The purpose of the Graduate is to foster students with trans-discipline applications capabilities, based on the research and development of color science and illumination technology. With their participation, future upgrade of industry level and increase of national competition capability can be expected.

## Bachelor Degree Program of Applied Science and Technology

This program aims to recruit NTUST students with excellent technical skills. According to their expertise and individual differences, instructors in the related fields are assigned to help them develop their learning plans. Furthermore, in cooperation with the industrial enterprises, the students will take an internship for one semester. This program includes four concentrations: Electrical and Computer Engineering, Mechanical and Manufacturing Engineering, Architecture and Construction Engineering, and Chemical and Materials Engineering.



# College of Intellectual Property Studies

The College aims to bring forth the advantage of practicability embedded in the technological and vocational education system and focuses on exploiting and commercializing invented technologies. In the meanwhile, the college adheres to the educational paradigm of "learning by doing", where students will be guided, through their IP trainings, to contribute in the realm of enterprise innovation, to support industry in IP negotiations and to promote knowledge-based economy.

## Graduate Institute of Technology Management

Graduate Institute of Technology Management offers a master's program specifically designed to illustrate the merging of business and technology in all industries and to prepare students critical skills for future success in their business career. The courses are in three disciplines: high-tech business management, technology law as well as innovation and entrepreneurship. This program focuses on helping managers and engineers-turned-managers to make appropriate use of current and future technological resources.

## Graduate Institute of Patent

Graduate Institute of Patent of NTUST focuses on executing the following features:

- Cultivating talents that are proficient in technology, management and law by providing a patent curriculum via integrating the resources of individual department, college and school.
- Cultivating talents that are proficient in both theory and practice by any cooperation mechanism between industry and university.
- Cultivating talents that are proficient in patent prosecution and litigation by cooperating with Intellectual Property Office, Intellectual Property Court and Patent Attorney Association.





## Location & Transportation

National Taiwan University of Science and Technology (NTUST) is located in Taipei downtown area which is about 10-minute walk from Gong-Guan MRT (mass rapid transit) station. You can take buses or taxis to get to Taipei from Taiwan Taoyuan International Airport. Bus platforms are available at both Terminal I and II. Terminal I Bus Platform is on the southwest side of the Arrival Passenger Reception Area, while Terminal II Bus Platform is on the northeast side of the Arrival Passenger Reception Area on the first floor of the terminal. Adult single fares vary from NT\$120 to NT\$150. The journey time is about one hour in moderate traffic. Taxis are available 24 hours a day outside the Arrival Hall of both terminals. Airport taxis charge according to the meter in addition to a 50% surcharge (highway tolls not included) and provide transport to anywhere in Taiwan. A typical taxi fare to Taipei is approx. NT\$1,100. You can visit the website, <http://www.taoyuan-airport.com/english/Index/>, for more buses and taxis information. After getting to Taipei, MRT, buses or taxis are all available to get to NTUST. You can visit Taipei Mrtro Information System at <http://english.trtc.com.tw/> for more information.



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