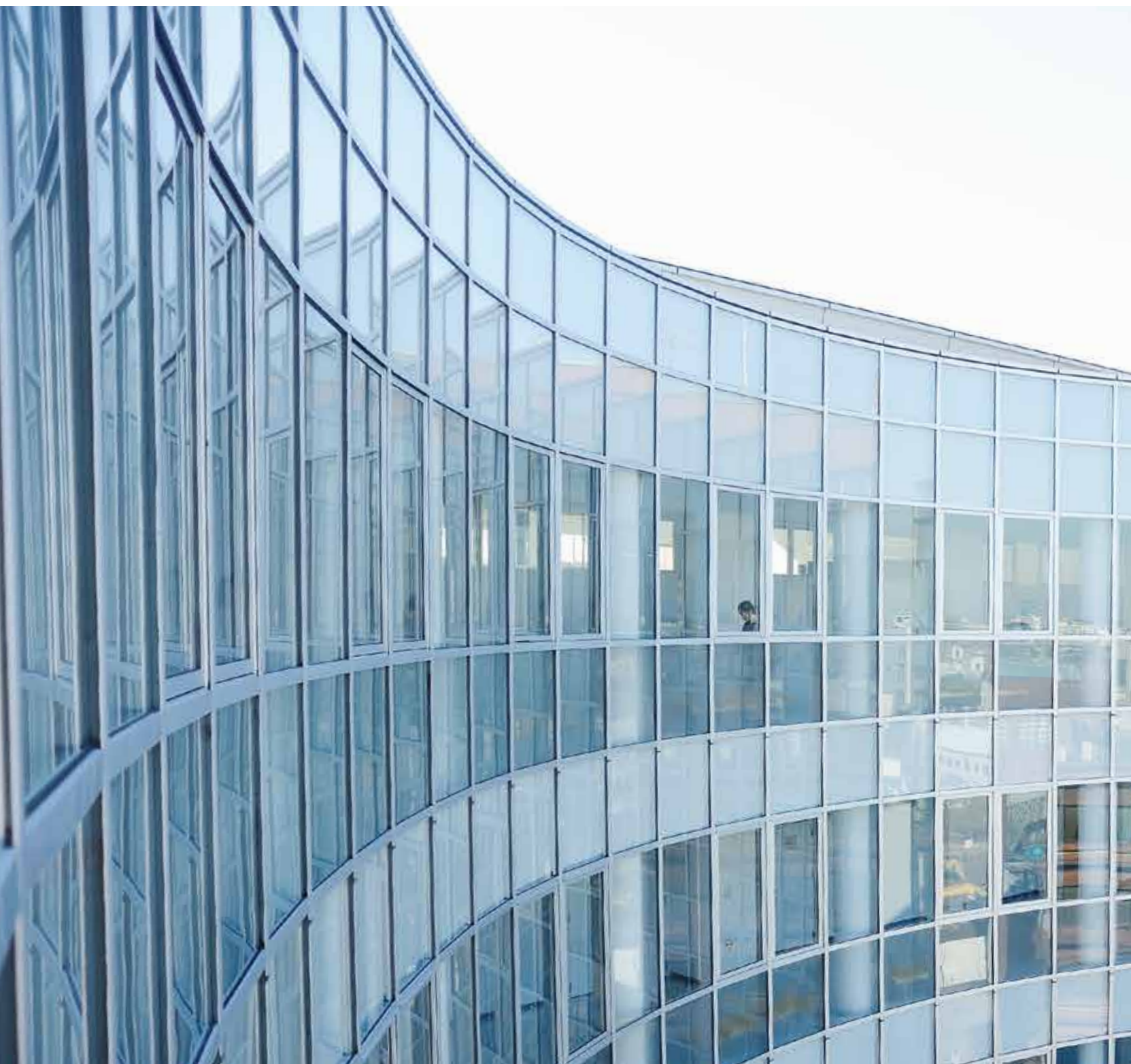


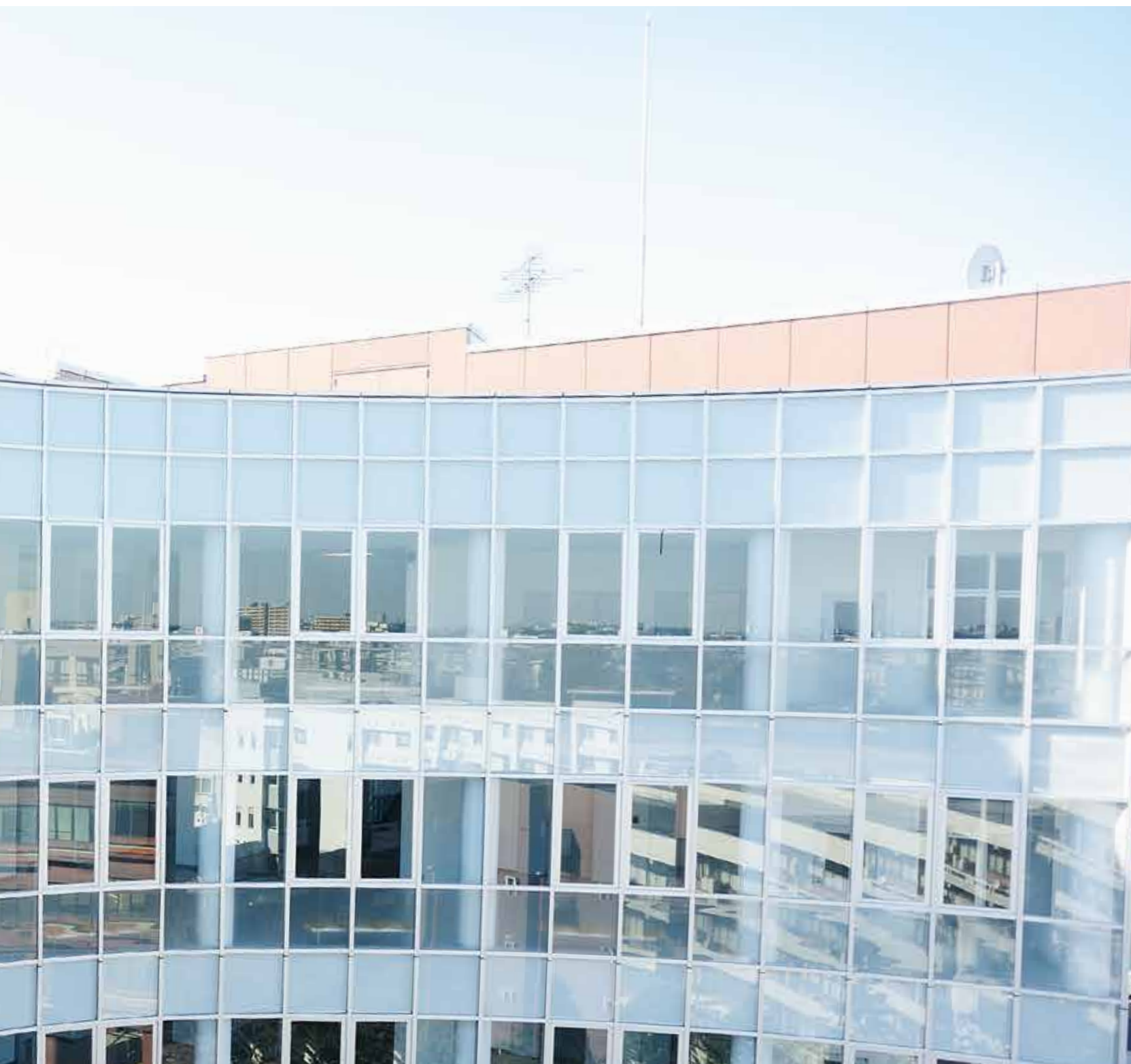


NIHON UNIVERSITY COLLEGE OF INDUSTRIAL TECHNOLOGY

NIHON UNIVERSITY
COLLEGE OF INDUSTRIAL TECHNOLOGY
since 1952

www.cit.nihon-u.ac.jp
1-2-1, Izumi-cho, Narashino-shi, Chiba 275-8575 Japan
+81-47-474-2201







Nihon University

Currently celebrating its 120th anniversary, Nihon University originated with the establishing of Nihon Law School in 1889. Since its foundation, the university has maintained a position at the forefront of tertiary education and research, consistently demonstrating a global perspective coupled with an enterprising spirit. In addition to its educational role as an institution offering a wide range of fields of study, Nihon University is also active in the areas of health care, continuing education, and a variety of other activities designed to contribute to the development of society as a whole.

College of Industrial Technology, Nihon University

The College of Industrial Technology (CIT), Nihon University began in 1965 when the School of Industrial Management became an independent college, separating from the College of Engineering (now the College of Science and Technology), which itself was founded in 1952. In the years since its establishment, CIT has consolidated its unique position as the technical college within the Nihon University system with the closest ties to industry, in both geographic and educational terms, employing this unique position in the training and development of engineering students from the perspective of human resource development. CIT has utilized this industry-linked educational philosophy to produce graduates who have acquired a strong commitment to safety and ethics, this allowing them to thrive especially within sophisticated information-technologies environments as well as to strive to become top-flight engineers capable of building today's state-of-the-art production systems.



To All Those Aspiring To Advanced
Monozukuri Manufacturing

You may think that the engineers who will forge the 21st century need only to learn about cutting-edge technologies, but there is more to it than that. The College of Industrial Technology (CIT) addresses all these requirements by supplying a campus environment able to develop and nurture promising individuals to attain not only outstanding levels of technical proficiency, but also to acquire a commitment to safety and ethics that allows them to manage the sophisticated information technologies. Such well-rounded students will pursue their professional careers, striving to become top-caliber management engineers, ones able to build the state-of-the-art production technology and systems of the future.

In other words, we at CIT impart the comprehensive knowledge and sharp judgment that bestows on our students the ability to comprehend how new technology affects society and nature, as well as develop their potential to become internationally-minded professionals—individuals who possess the human-based communications skills and the management skills allowing them to speak from the side of a production engineer. Both of these qualities will go very far in gaining respect for our graduates in every sector of the globalized civilization that is arising in the 21st century.

We warmly welcome all those aspiring to become the kind of engineers who will make a difference both to Japan and to the world.



DEPARTMENTS

Department of

Electrical and Electronic Engineering

In establishing energy, electronics, and information communications as the foundation of its educational philosophy, the department considers the ways in which electrical and electronic engineering can be best utilized in society and industry.

Department of

Architecture and Architectural Engineering

The department conducts research into the various methods for creating homes, offices and commercial facilities that will endure as representations of unique spatial environment. Encompassing a wide variety of academic fields, including physical science, the human sciences, and art, the department approaches its courses of study in a comprehensive fashion.

Department of

Industrial Engineering and Management

As the name suggests, this field of study combines the theory of management with engineering. Acquire the skills to advance economic society more effectively, such as by building efficient production systems using management knowledge and techniques.

Department of

Sustainable Engineering

The department encourages students to be engineers with global insight; in other words, with the ability to understand the concept of "sustainability" through an active use of a wide range of international communication skills. Graduates learn to integrate the energy needs required for a sustainable society with a flexible knowledge that cuts across every section of the field of energy conservation.

Department of

Mechanical Engineering

From automobiles and aircraft to rockets and motorcycles, students in this department learn about general manufacturing with a special focus on the vehicles that fascinated them during their childhood days.

Department of

Civil Engineering

The Civil Engineering Department encompasses a field of study that considers the planning, design, construction, and other important facets of such social infrastructure as roads and bridges. Research is advanced across two separate courses: Environment and Urban Engineering Course, and the Management Course.

Department of

Applied Molecular Chemistry

Applied molecular chemistry is a field of study focused on the "materials" of all manner of things that make up society. The department offers materials design, biomolecular chemistry and engineering in applied chemistry courses.

Department of

Mathematical Information Engineering

This course of study covers an area ranging from a basic comprehension of information engineering to the skills and expert knowledge which comprise its practical aspects. The department offers mathematical engineering, computer science and engineering, and media design courses, actively developing information technology engineers able to solve all manner of technical problems.

Department of

Conceptual Design

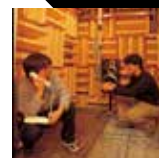
Creating a fusion of art and technology, the Department of Conceptual Design develops the human resources capable of comfortable, functional and playful designs with engineering knowledge and design skills.

GRADUATE SCHOOL MASTER AND DOCTOR COURSES



Mechanical Engineering

Electrical and Electronic Engineering



Civil Engineering

Architecture and Architectural Engineering



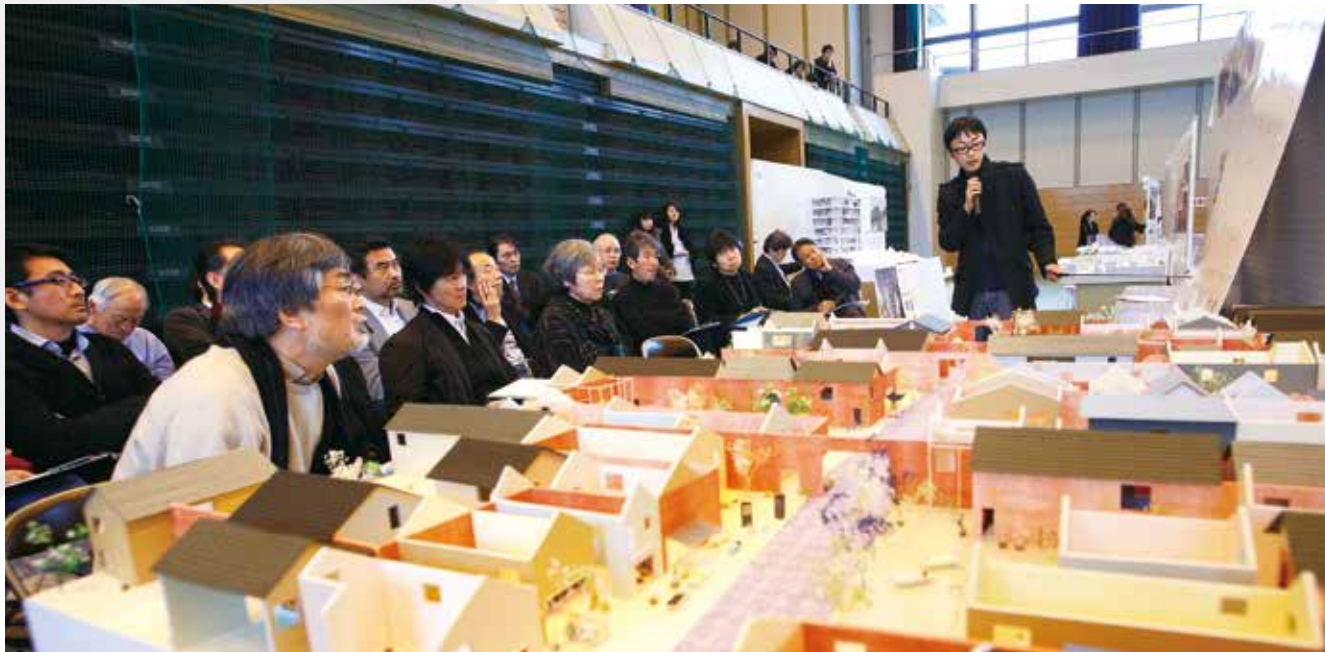
Applied Molecular Chemistry

Industrial Engineering and Management



Mathematical Information Engineering

Total Capacity of Enrollment
Master's program : 280
Doctor's program : 63



EDUCATIONAL GOALS

The overall educational goal of CIT is to train, develop, and cultivate students possessing a wide-range of educational accomplishments and management and technical skills. In pursuit of this overriding goal the college aims at attaining a number of subsidiary objectives, the primary one being to utilize the unique personal qualities and abilities of each individual in order to develop engineers who in both thought and action consider the needs and safety of the ordinary citizen, thereby contributing to both society and humanity as a whole.

Additionally, CIT strives to foster a student's ability to think multilaterally about academic basics, as well as to impart to him or her the applied skills necessary to cope with advances in technology, especially in regard to the impact of today's rapid technical progress on society, nature, and the environment.



EDUCATIONAL POLICIES

1. Diploma Policy

At CIT, Bachelor (Engineering) degrees are granted to individuals who have mastered the following abilities through completing a curriculum based on the goals and mission of Nihon University, the educational goals of CIT, and the educational and research purposes of each department.

Candidates must compile an extensive record of accomplishments, acquire a basic knowledge of natural science as well as a rich and varied knowledge of cultural and social sciences, combined with a systematic understanding of specialist fields in accordance with the educational and research purposes of each department, and, as well, possess a sound and comprehensive knowledge of industrial engineering.

Candidates must be able to assume an international perspective in collecting and analyzing all necessary information and be able, as well, to build and expand upon their own ideas.

Candidates must, as members of an increasingly globalized information-drive society, be able to adapt to technological advances and collaborate with others.

Finally, candidates must be able to use their acquired knowledge, skills, attitudes, and other qualities, in a comprehensive manner, especially, in contributing to the solving of new problems as engineers equipped with a wide range of management skills.

2. Curriculum Policy

The college organizes the curriculum in order to develop students who will meet the criteria specified in the college and university diploma policies.

By completing a unified plan of study that includes cultural and basic science courses along with professional programs (subjects in fields of specialized engineering), students will be able to acquire a basic knowledge of natural science as well as a rich and varied knowledge of cultural and social sciences. They will also be able to gain expertise in each specific area through courses arranged systematically in the curriculum.

By completing cultural and basic science courses and professional programs (subjects in fields of specialized engineering) which offer an opportunity to develop communication ability, students will be

able to gather and analyze information from an international perspective and effectively communicate their ideas. Students will also master technical skills useful in an information-driven society through a curriculum which includes subjects with practical applications properly arranged from the first year.

Through subjects with practical applications, seminars, and graduation research, students will learn to solve new problems on their own initiative and collaborate with others while expressing their own opinions.

By completing industrial technology courses focusing on industrial internships, students will acquire basic knowledge of industrial technology and executive skills, including management.

3. Admissions Policy

The college seeks highly motivated students deeply interested in manufacturing who will strive with personal commitment to acquire deep academic knowledge and practical skill in the various engineering disciplines. Students will also be expected to acquire the applied skills that enable them to cope with advances in

technology and the theoretical skills that foster creative insight. As well, students should be prepared to strive to become engineers equipped with the management skills necessary to meet international standards within their various fields.



● JABEE

● What is JABEE?

JABEE (Japan Accreditation Board for Engineering Education) is an organization that examines and accredits programs in engineering education at science, engineering, and agricultural faculties throughout Japan. The educational programs accredited by the board are designed to foster the education of engineers in accordance with international standards. Program content focuses on small group instruction in particular, and all students who graduate are certified as having completed a program designed to prepare engineers to perform their work in an international environment. In addition, graduates of JABEE-accredited programs are exempt from the First Stage Professional Engineering Examination and are deemed “Engineer in Training.” Furthermore, if certain specified conditions are met in accordance with the proper registration requirements, qualification as an Associate Professional Engineer can also be obtained.

JABEE has been a signatory to the Washington Accord that is an international agreement among bodies responsible for accrediting engineering degree programs.

● Subjects Established by JABEE

Four JABEE-accredited courses have been established at CIT thus far and are currently being conducted within the Department of Electrical and Electronic Engineering, the Department of Civil Engineering, the Department of Applied Molecular Chemistry, and the Department of Mathematical Engineering. In these four courses, credits are certified according to the level of academic attainment established by each department in accordance with uniform criteria prescribed by JABEE.

● Industrial Internships and Subjects Related to Industrial Technology

Since its founding, CIT has developed engineers able to thrive in every industry as well as successfully engendering an environment that advocates practical learning. To assist in achieving these two aims, industrial internships were incorporated into the curriculum as compulsory subjects over 40 years ago. With the cooperation of businesses and public offices working in the front lines of industry, over 1,400 students every year learn and acquire on-the-job skills in their given field.

The overall purpose of the internship program is to associate theory with practice and to allow the acquisition of skills that can be utilized when entering the workforce. As an initial step, students take subjects related to industrial technology. Thus, while acquiring knowledge and formulating their own career plans, students are able to prepare for an industrial internship. Industrial internships are conducted from late July to late September during a student's third year. Afterwards, at industrial-internship-report meetings held in late October, each student presents a report detailing his or her intern experience.



■ What are industrial internships?

CIT defines industrial internships as special programs in which students receive practical training in business, professional organizations, or elsewhere. While receiving instructions at the internship location, students not only come into contact with the technologies that companies have pioneered on their own, but also are able to develop exchanges with many engineers and other workers active in their own major fields of study. This program is designed to produce engineers and researchers who understand both the theory and practice behind their fields.

■ What are the subjects related to industrial technology?

Fields of study at CIT are extremely wide-ranging and inculcate techniques which students are able to utilize in a great variety of industrial or manufacturing environments. Students take the subjects falling within the category of industrial technology suits them best, this allowing them actively to pursue their career design after graduation. In this way, every student is able gradually to bring his or her own ideal image of an engineer into sharp focus.





DEPARTMENTS

Department of Mechanical Engineering

Department of Electrical and Electronic Engineering

Department of Civil Engineering

Department of Architecture and Architectural Engineering

Department of Applied Molecular Chemistry

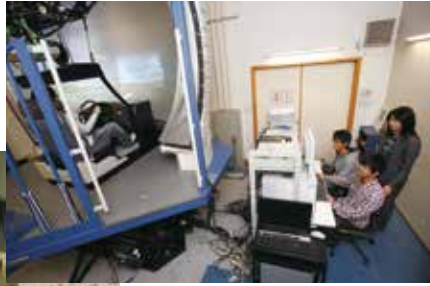
Department of Industrial Engineering and Management

Department of Mathematical Information Engineering

Department of Sustainable Engineering

Department of Conceptual Design





A department focusing on the understanding and development of technologies in the mechanical industry.

COURSES

- **Automotive Engineering Course**

This course focuses on imparting knowledge of automobiles, such as mechanics, design, and control.
- **Aerospace Course**

This course focuses on the study of advanced engineering, particularly those fields associated with aircraft and other aerospace vehicles.
- **Creative Mechanical Engineering Course**

This course focuses on the study of engineering in order to produce efficiently high-performance machines.

Department of Mechanical Engineering

Mechanical engineering is a discipline which supports the foundation of production activities that enrich the quality of human life. In recent years, an emphasis has been put on achieving a harmony among machines, humans, and the natural world. As a result, machine design and construction must now meet the challenge of producing environmentally-friendly products in a global environment that provide greater safety and comfort. In order to meet these challenges, the department emphasizes the development of human resources, tapping the vision of engineers to create state-of-the-art machines and to manage the manufacturing process from a global perspective.

One of the key features of the Department of Mechanical Engineering is to engender in its students, through course

curriculum, both theoretical interest and practical ability. In line with this thinking, the department utilizes Project-Based-Learning (PBL), a teaching methodology under which students study clear objectives connected to the design and fabrication of machines, as well as developing a practical manufacturing sense.

The department offers three courses. The first two, the Automotive Engineering Course and the Aerospace Course targets students with an interest in vehicles, while the Creative Mechanical Engineering Course focuses on those who seek to engage in the study of mechanical engineering for highly versatile machines. All of these courses allow students to devote themselves to their studies with a sense of creative purpose, while acquiring specialized professional knowledge and techniques.



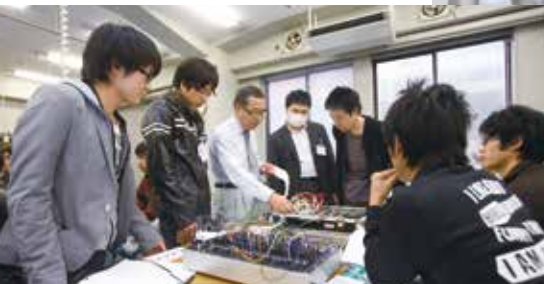
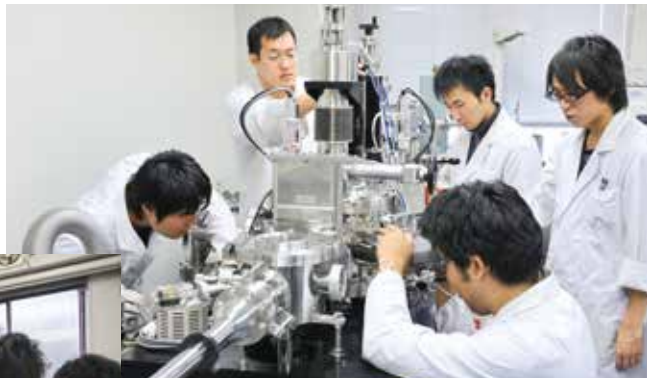
Electrical engineering is a broad discipline ranging from the design and manufacture of micro-electronic components and a variety of electrical devices to the support of large scale power systems and the infrastructure of advanced information-driven societies. This discipline includes the fields of electrical engineering, electronic engineering, control engineering, and information communications engineering, fields that continue to expand in step with changes in the structure of industry and the advancement of sophisticated information-driven societies. In particular, the field of information communications engineering based on computer-related technologies has evolved at a rapid pace, thus creating a need for highly specialized education.

In order to produce engineers able to thrive within modern, state-of-the-art engineering environments, the department has developed a comprehensive and varied menu of educational and research activities, organizing them into three courses of study. These courses seek to enhance the educational content in order to facilitate the acquisition of basic knowledge within the various fields that comprise electrical and electronic engineering, allowing information to be acquired in a systematic and effective manner.

In addition, the department has also put in place experimental and practical subjects aimed at imparting a working knowledge of monozukuri manufacturing, thus striving to develop engineers endowed with a rich creativity.

Department of Electrical and Electronic Engineering

Acquiring basic and expert knowledge in a systematic and efficient manner



COURSES

● Energy System Course

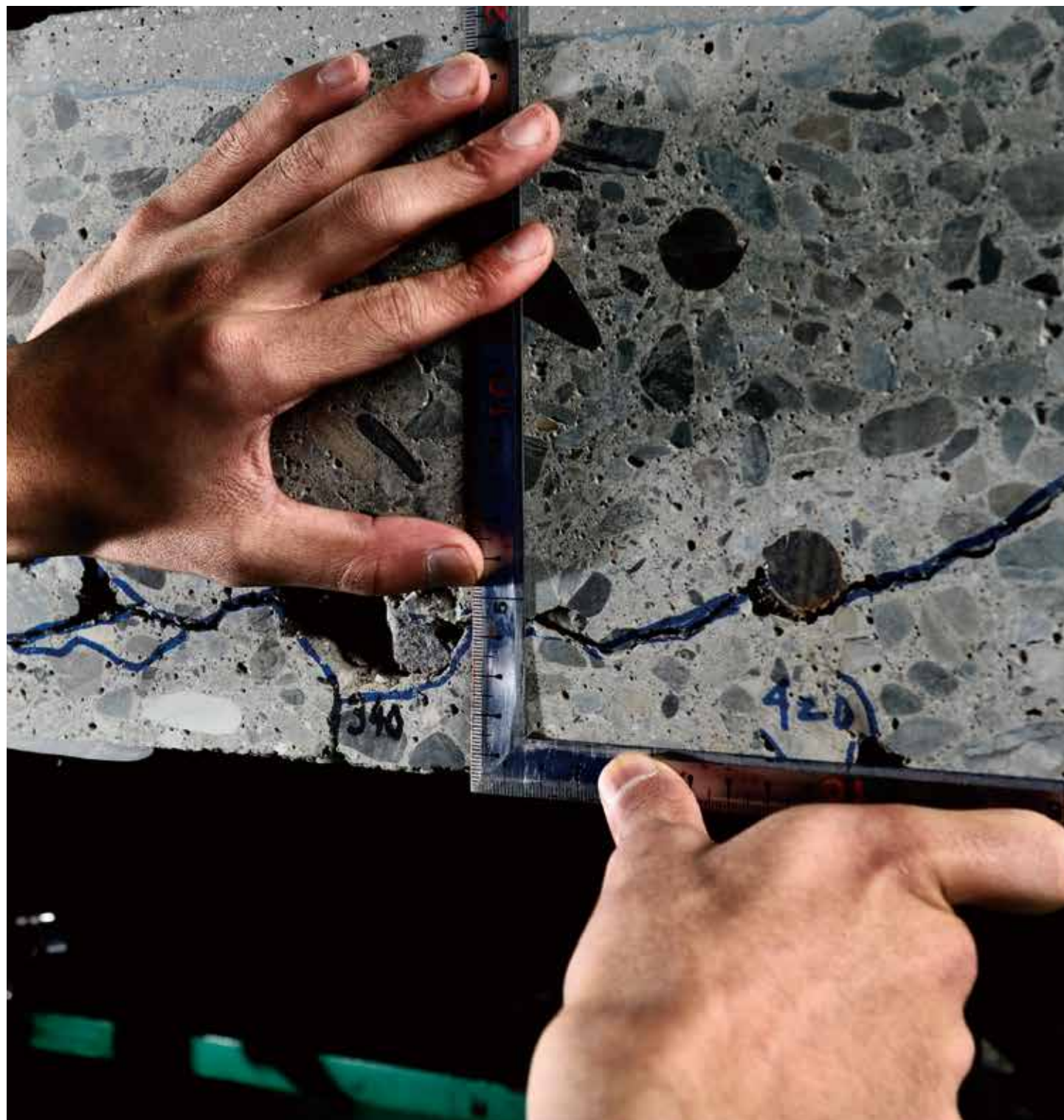
This course cultivates professionals in the field of energy systems.

● e-Communication Course

This course is designed to cultivate professionals in the fields of electronics, and information communications, adopting a learning strategy that places hardware at its core.

● Creative Engineering Course (JABEE)

In addition to energy, and information communications, students study subjects that respond to the latest needs of society.





Taking on the challenges of the next generation with safe and comfortable environmental development

COURSES

● Environment and Urban Engineering Course

This course cultivates engineers able to build urban facilities as well as to plan and design systems with sophisticated functionality. In addition, students study how to create social infrastructure from the perspective of the global environment.

● Management Course (JABEE)

From planning and design to management, JABEE cultivates engineers able to manage construction technologies in a comprehensive manner.

Department of Civil Engineering

Civil engineering is a discipline which covers a wide range of practical work such as planning, design, construction and maintenance, and management across various fields in a variety of environments, including roads and rivers, water and sewer services, harbors, transportation, and energy.

Aside from the items mentioned above, however, the 21st century has seen a host of new challenges emerge. Problems include, for example, how to deal with the environmental pollution presently progressing on a global scale, what actions to be taken with respect to the growing demand for energy, how to prevent damage from natural disasters such as earthquakes and flooding, and what to be done in regard to facilities designed to handle

the rapid spread of information transmission.

Civil engineers must also tackle the human dilemmas facing mankind through overpopulation, considering a wide variety of propositions that seek the best methods to protect the environment in ways friendly to all living things and to create welfare and urban facilities to cope with aging populations. To explore the paths towards solutions to these problems, the department cultivates engineers meeting international standards, individuals who have acquired the required basic knowledge and practical work skills through their courses of study in civil engineering.



The field of architecture can be defined broadly as a discipline which creates living environments for humanity, thus is a field not limited to the design of homes, or urban spaces only. Architecture is a sphere of study which encompasses large swaths of human endeavor, combining construction techniques with the social sciences and the humanities and arts, the achievement of its feats providing stimulus and esthetic satisfaction for the mind. Thus, those who learn architecture in the future must master the fields it subsumes in a comprehensive and interdisciplinary fashion. In times to come, even those who now live with only a casual regard for architecture will require a display of expert knowledge and engineering techniques in the environments

they inhabit. In the future, then, those considering undertakings related to architectural work will be required to assume a role in which they use the aforementioned expert knowledge as the basis for managing segmented fields in a cross-sectional manner, assembling the results of their labors in a comprehensive way. To meet these societal demands, the department fosters in its students the abilities to think creatively, apply themselves firmly, and clearly communicate in order that they might conceive of new ideas in the field of architecture rather than being bound to conventional values. Its primary goal, then is to produce architects from the standpoint of human resources development, equipping their students with a wide range of problem-solving abilities.

Department of Architecture and Architectural Engineering

Study "Architecture" at the Department of Architecture and Architectural Engineering



COURSES

● General Architecture Course

This course focuses on basic academic skills relating to architectural engineering. Consistent practical skills from design to construction are developed.

● Architectural Design Course

This course develops practical skills through teaching aimed at realizing desirable environments for architecture and cities.

● Habitation Space Design Course

This course develops the practical skills for designing living spaces in which people can pass time in comfort.





Taking on the challenges of the next generation with safe and comfortable environmental development

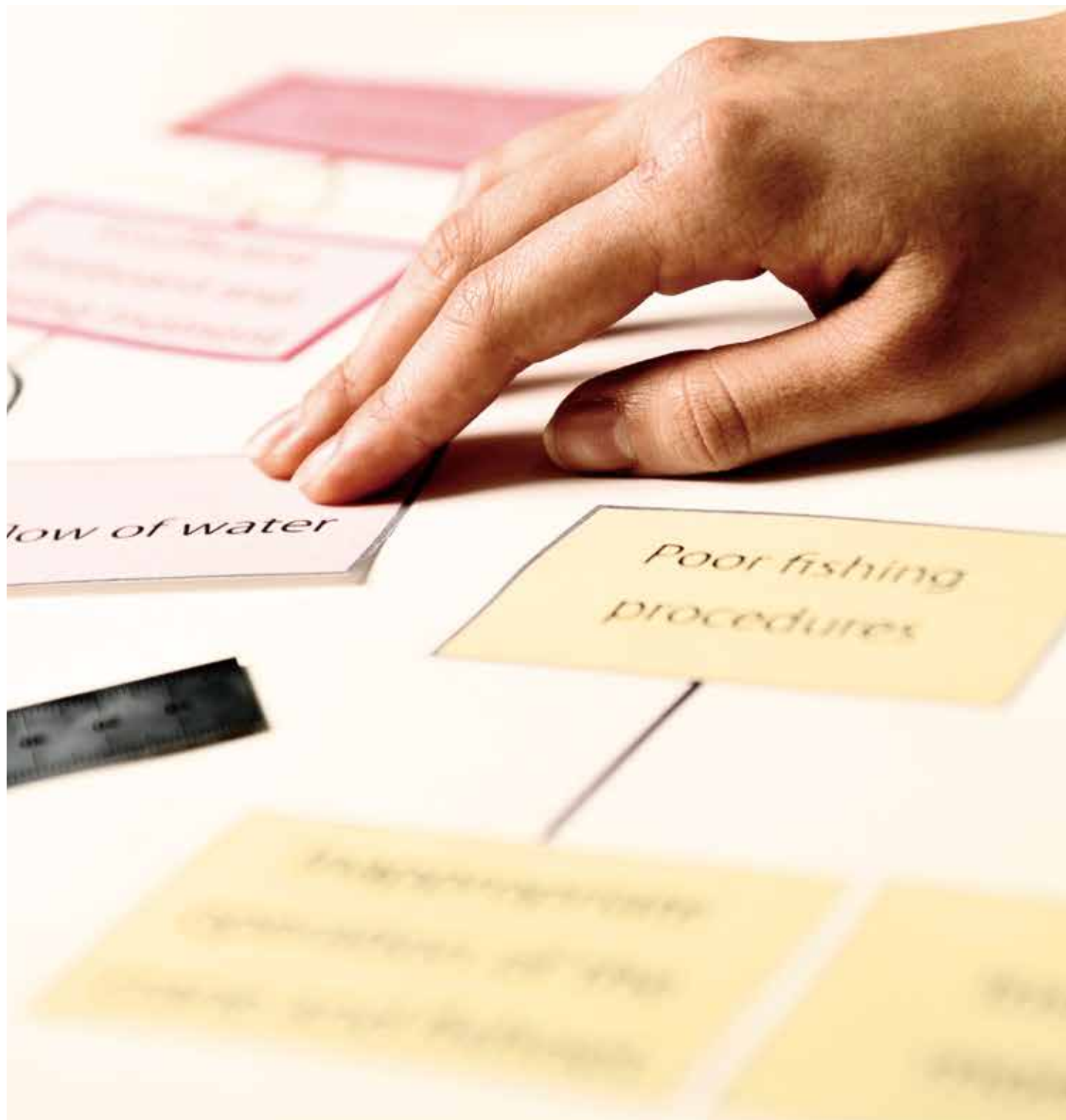
COURSES

- **Materials Design Course**
To train engineers who can create novel materials and substances in the molecular level.
- **Bio Chemistry Course**
To train engineers who can engage in manufacturing based on biotechnologies and the use of vital functions.
- **Engineering in Applied Chemistry (JABEE)**
To train highly-skilled engineers who can find and solve problems in chemistry-related fields.

Department of Applied Molecular Chemistry

We all routinely use a variety of manufactures, such as mobile phones, automobiles, medicines, and so on. Most of these are made from chemical materials. Do you know that they are made by combining about 100 different elements present in earth? Materials with various functions can be created by combining only these 100 different elements, that are useful and essential in our daily life. At Department of Applied Molecular Chemistry, we have trained engineers with problem-solving skills who

can contribute to the development of society. In addition, the department regards environmentally friendly "green chemistry" as a fundamental concept. Our main educational and research-based goal is to co-exist natural resources and environment and to pursue the possibilities of materials. At the end, students acquire the "molecular design skills" to create substances and materials with characteristics that we require.



The Department of Industrial Engineering and Management offers programmes, which comprise the core subject areas required for an engineering degree while gaining the skills required to work with interdisciplinary groups of people. Students will learn principles of management to design, plan, implement, and control systems of people, materials, information and technology in addition to the application of engineering methods. Students will understand analytical decision-making, efficient distribution of products and services, and applications of information technology that support decision-making in the reciprocally and complex business environment. The Management engineering

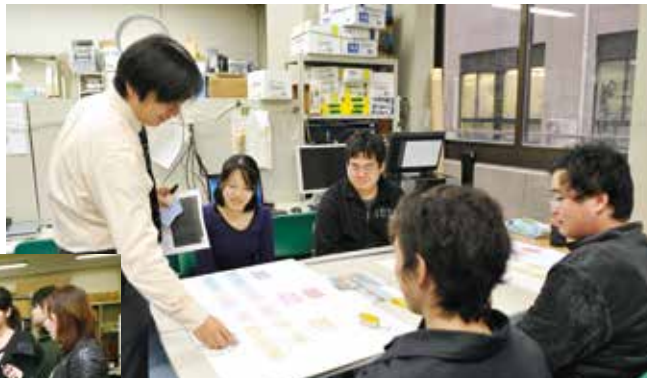
programme combines technical and managerial knowledge focusing on the use of analytical methods of an engineering education with the management skills required in today's technology oriented world.

In the complex and competitive world of technology-driven industry, skilled engineers who understand the essential principles of business as well as technology have enormous competitive advantages. Graduates with this type of background will be in high demand in every industry.

The department will give students an opportunity to study in three specialised courses, any of which students will select in their second year.

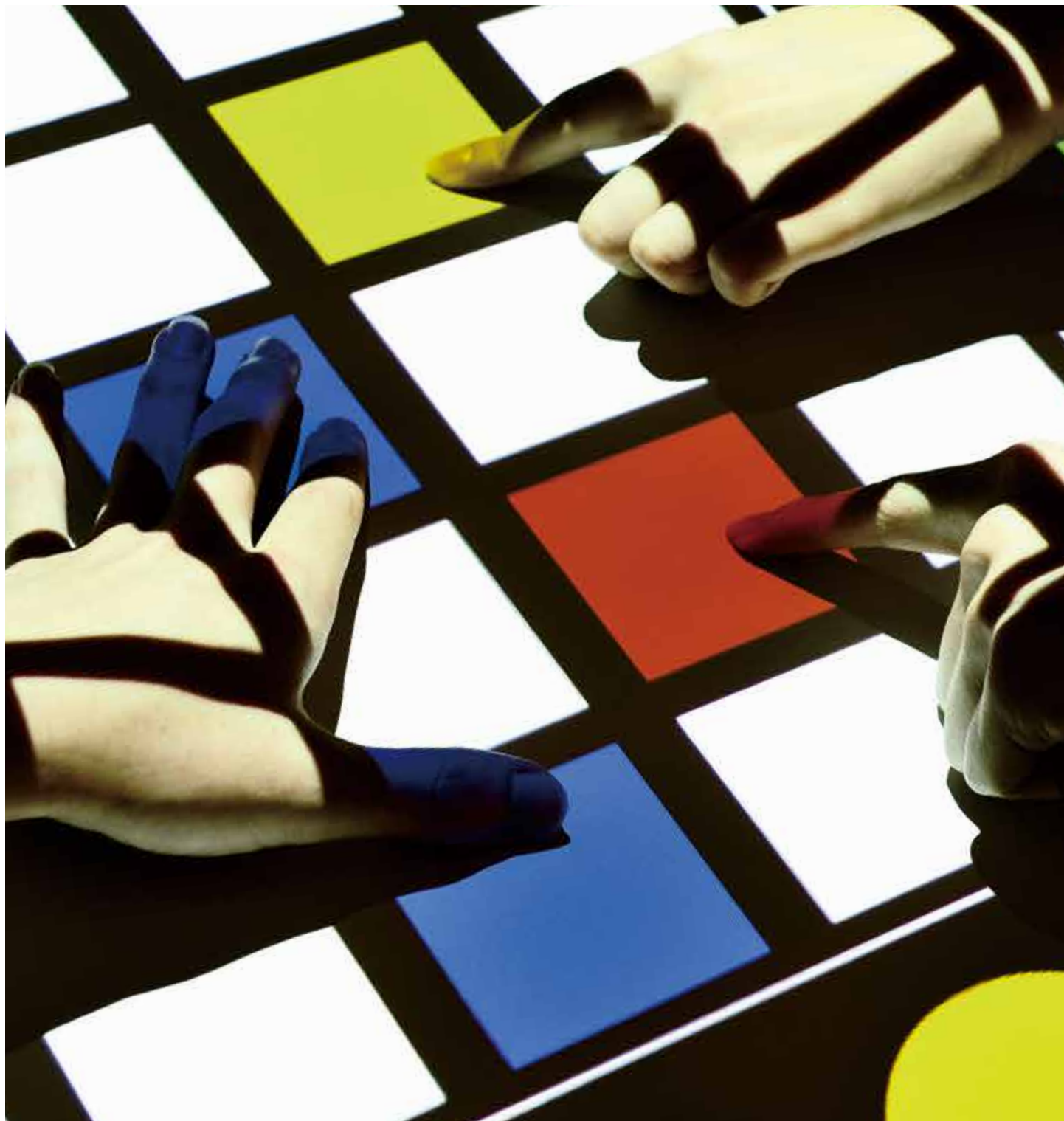
Department of Industrial Engineering and Management

Management theories and techniques to compete effectively



COURSES

- **Business Management Course**
Focuses more on core areas of business management, for those with an interest in developing business management skills.
- **Engineering and Management Systems Course**
Focuses on finding and solving problems in businesses and organisations using various kinds of knowledge and methodologies.
- **Food Management Course**
Study the methodology finding a problem solution through ways of the management engineering that targeted food business.





Learn both the theoretical and practical aspects of information processing technologies

COURSES

- **Mathematical Engineering Course**
Through performing a series of practical exercises, students acquire fundamental skills in mathematical engineering with the aim of developing into information-technology engineers.
- **Media Design Course**
Rather than focusing only on the conventional techniques for analyzing and processing information, students learn alternative techniques of expressing information in an appealing way.
- **Computer Science and Engineering Course (JABEE)**
This course narrows its focus to information engineering with the primary purpose of imparting a computer education that combines practical aspects.

Department of Mathematical Information Engineering

Mathematical information engineering is a discipline that deals with a variety of information technology, such as computer networks, computer graphics, and computer databases. Mathematical information engineering allows people to solve problems that to date have been difficult or impossible to tackle through engineering techniques alone. It might not be an exaggeration to say that mathematical information engineering today plays a central role in all fields of engineering. Mathematical information engineering requires a wide range of technically-oriented theoretical and developmental skills in order to expand, elaborate, and create new technologies, as well as the practical systems development skills to organize and manage them. At the Department of

Mathematical Information Engineering, we aim to equip students with such skills in order to develop them as engineers who are able to thrive in today's advanced information society. The curriculum is divided into three courses: the Mathematical Engineering Course, the Media Design Course, and the Computer Science and Engineering Course. In each, we place an emphasis on the development of practical skills as well as stressing fundamental skills and problem-solving abilities. Even at companies that exist outside the information sector, there is a high demand for information-focused engineers, a situation giving our graduates the opportunity for employment at a wide variety of companies.



With the rapid development of science and technology, our lives have become more convenient and comfortable than ever before. However, due to the huge growth and increasing complexity of both science and technology, understanding the interplay of these two areas from a big-picture perspective has become increasingly difficult. For anyone who aspires to become an engineer, it is essential that his or her learning span multiple technical fields, including mechanical engineering, electrical engineering, chemical engineering, and civil engineering. In addition to engineering knowledge, an understanding of environmental safety and energy is a key requirement, one which demands deep insight and international communication skills, as well as a sound grounding in the social and human-health sciences.

Environmental safety engineering is newly established field of fully integrated engineering based on interdisciplinary knowledge and techniques. Through four-year programs of study and research, the department aims to produce “green engineers” who have acquired the theoretical and practical skills and techniques necessary to meet the challenges presented by an implementation of the concept of sustainable manufacturing and who combine unique perspectives on environmental safety with advanced knowledge in a variety of technical fields in order to attain goals which will improve the world we all live in, such as ensuring product safety, preventing industrial and other types of accidents, and securing a long-term supply of stable energy resources.

Department of Sustainable Engineering

*Seeking coexistence with nature
and a safe society*



COURSES

- **Environmental Safety Course**
Students acquire an understanding of laws related to safety as well as techniques to reduce society's current impact on the environment. The course also cultivates a student's ability to communicate such accomplishments effectively within a worldwide professional environment.
- **Sustainable Energy Course**
Students acquire knowledge of next-generation energy sources in order to achieve harmony with nature while simultaneously continuing a sustainable pace of growth and development.





Learn both the theoretical and practical aspects of information processing technologies.

COURSES

● Product Design Course

The Course develops the designers and conceptors who create industrial products, electrical appliances or automobiles that best suit users' and social needs.

● Space Design Course

The Course develops the designers and conceptors who offer space and atmosphere optimal for persons living there, through education on interior or environmental art work.

Department of Conceptual Design

The engineering design and technology in the 21st century requires creative engineers with comprehensive expertise who are theoretical but understand a sense of pleasure and beauty.

The Department of Conceptual Design fulfills these needs. It intends to develop the designers and conceptors who are capable of creating products that satisfy users' and social needs. To this end, students are encouraged to acquire "flexible engineering" - the engineering for comprehensive designs on the basis of extensive knowledge.

In addition to design-associated professors from machinery, electric/electronic, architecture, management, mathematical information and various other areas, the Department invites part-time instructors from different areas of expertise. As a fusion of art and technology, the "flexible engineering" is an important concept that supports future designs. The Department will develop the human resources with engineering knowledge and design skills for manufacturing under the concept.

Liberal Arts and Basic Sciences

Liberal arts education enables students to appreciate the appeal of intellectual pursuits organically from the sphere of their own special interests. The learning acquired in this department is not the type of basic knowledge useful only for specialized study at university but rather the kind that stems from a curriculum designed to broaden an individual's human potential.

In consequence, Liberal arts subjects are organized within a curriculum divided into "general subjects," which approach key aspects of modern society in a comprehensive manner and "thematic subjects" which encourages learning that pursues the development of a specific topic, or "theme."

L I B E R A L A R T S

● General Subjects

General subjects are those designed to integrate the thematic subjects offered as a part of the liberal arts curriculum. General subjects clarify how each of the thematic subjects have adapted the various approaches selected in order to harmonize best with the topics unique to each respective field, the subjects themselves, of course, being positioned within the framework of the disciplines under which they fall. In other words, rather than having multiple instructors introduce expert knowledge individually in a number of differing areas, general subjects are discrete but wide-ranging units intended to promote an integrated understanding of the connections among each of the categories developed within the thematic subjects.

● Thematic Subjects

Thematic subjects are organized in accordance with the five categories listed below. Students are able to select freely from among the themes in which they have an interest. It is possible to study a single group of themes intensively or take subjects that cut across multiple areas of interest.

- Thoughts on Nature, Environment and Science
- Human Science
- Aspects of Modern Society
- Sports
- Foreign Language





B A S I C S C I E N C E S

- Mathematics
- Physics
- Chemistry and Biology
- Computer Literacy

When students begin to study engineering they first need to understand the current state of the field, along with acquiring a wide range of basic knowledge and abilities that will serve as the foundation for all work accomplished within the discipline. In basic science subjects, students acquire fundamental precepts which can be applied to any branch of engineering, as well as additional expertise that can be utilized in the more specialized learning that follows. This might be called the “development of basic fitness” for the advanced research to come.





NIHON UNIVERSITY

COLLEGE OF INDUSTRIAL TECHNOLOGY

Introduction to University Facilities



■ **High Technology Research Center** **Advanced Research Center for Life Science and Human Environment**

The High Technology Research Center is, as the name implies, a high-tech research facility endowed with cutting-edge equipment and apparatuses without parallel at the university-laboratory level. The center has worked on a number of projects connected to environmental conservation technologies that fall within the sphere of environmental-science research, being especially active in the establishment of environmentally-friendly production technologies. At the same time, joint research is conducted in the Advanced Research Center for Life Science and Human Environment by several researchers from both Nihon University and abroad.



■ Advanced Research Center for Water Engineering and Technology

Aimed at the development of global, environmentally-conscious technologies, the Advanced Research Center for Water Engineering and Technology concentrates on water as its research theme, thoroughly investigating all facets of one of the earth's most abundant and easily obtainable natural resources. By changing temperature and pressure, water takes on a variety of

different physical and chemical properties. The center uses cutting-edge equipment and facilities in a bid to develop materials, industrial processes, and new technologies that utilize these properties. The center has attracted much attention both in-country and out and thus promotes smooth collaboration between research institutions in Japan and abroad.





Library

The main branch of the library is housed in an eight-story building located on the Tsudanuma Campus, with a satellite branch established at Mimomi Campus. The library's collection totals approximately 250,000 volumes. In addition, it also maintains around 1,500 major scholarly journals published around the world, as well as possessing numerous audio-visual materials, such as videos and CDs. The library also contains a fully equipped book-and-material search system. For books and materials not in the library, originals or copies may be ordered from other university libraries—a support-system that allows learning and research to proceed smoothly is also available for student and faculty use.

IT center

The IT Center provides an internet-connected environment so that students can conveniently use the notebook PCs they bring on campus. Additionally, the center provides a unified means for using on-campus wired and wireless LAN and has also created an environment in which users can carry out data processing, report creation, and other tasks necessary for their study or research.



Information Processing Laboratory

This facility is used for computer-related classes, such as computer-language-lab sessions. One hundred sixty of the latest-model personal computers are presently installed. The computers are connected via an intra-classroom network; additionally, an efficient class environment is provided through a teaching support system (computer aided instruction, or CAI). The laboratory is available for use outside classroom hours as well, staying open until 10 p.m.



TSUDANUMA CAMPUS

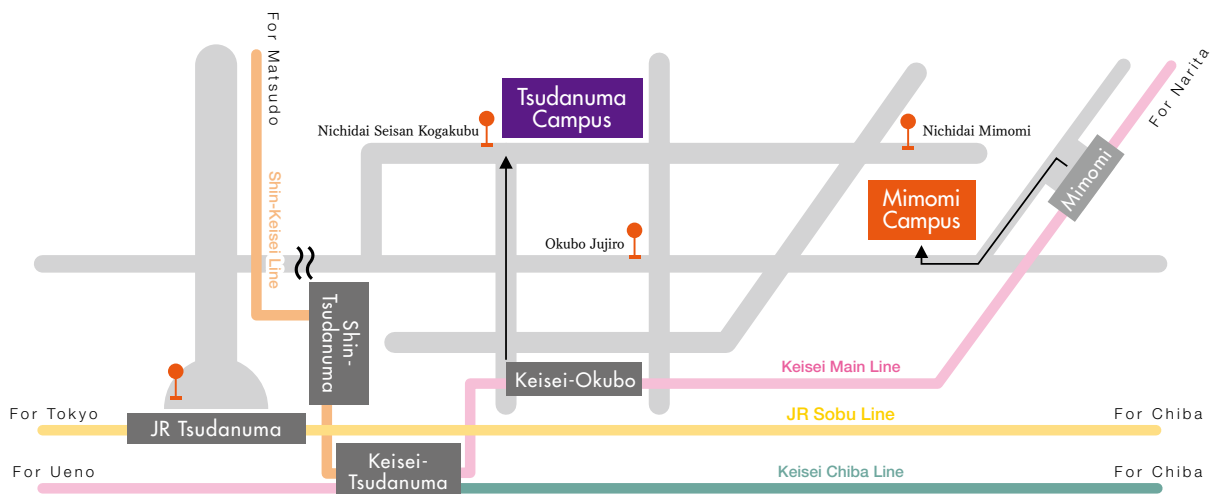
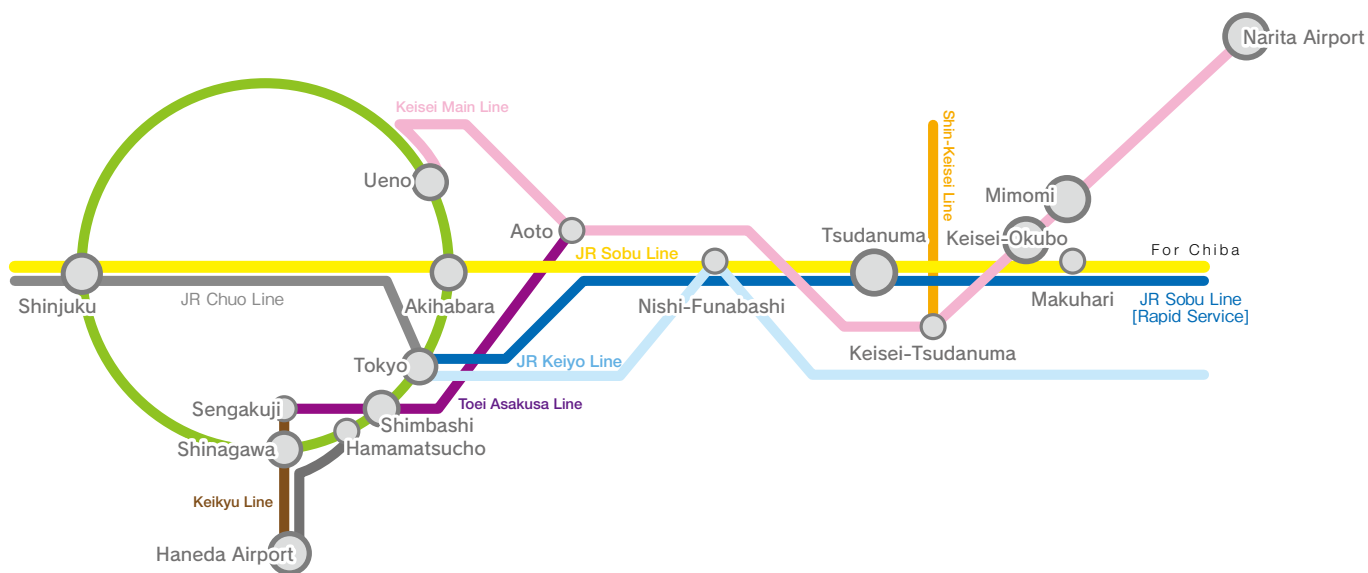
Students spend their final three years at the Tsudanuma Campus engaging in the advanced study necessary to acquire proficiency in their major areas of study. The campus is well-outfitted with facilities that further the pursuit of enhanced expertise in all technical areas. Tsudanuma Campus is home to the High Technology Research Center, which is stocked with cutting-edge research equipment and lab facilities, as well as the Advanced Research Center for Water Engineering and Technology, the Advanced Research Center for Life Science and Human Environment, and other research-oriented establishments.



Mimomi Campus is home to all first-year students. Thus, one of the campus's primary goals is to help students become accustomed to university life. The campus houses extensive facilities including the classroom buildings used to deepen students' general education, as well as the Physics and Chemistry Experimental Buildings where research can be conducted. There is also a baseball stadium (No. 1), an athletics stadium, a soccer pitch and more. The campus also features many other facilities where students who will be spending four years together can participate with instructors in a variety of activities.



MAP

**Tsudanuma Campus**

By Bus | Take the bus from the No.4 bus stop at the north exit of JR Tsudanuma Station to the "Nichidai Seisan Kogakubu" bus stop.

By Train | A 10-minute walk from the exit of Keisei Okubo Station on the Keisei Main Line.

Mimomi Campus

By Bus | Take the bus from the No.5 bus stop at the north exit of JR Tsudanuma Station to the "Nichidai Mimomi" bus stop.

By Train | A 10-minute walk from the exit of Mimomi Station on the Keisei Main Line.

