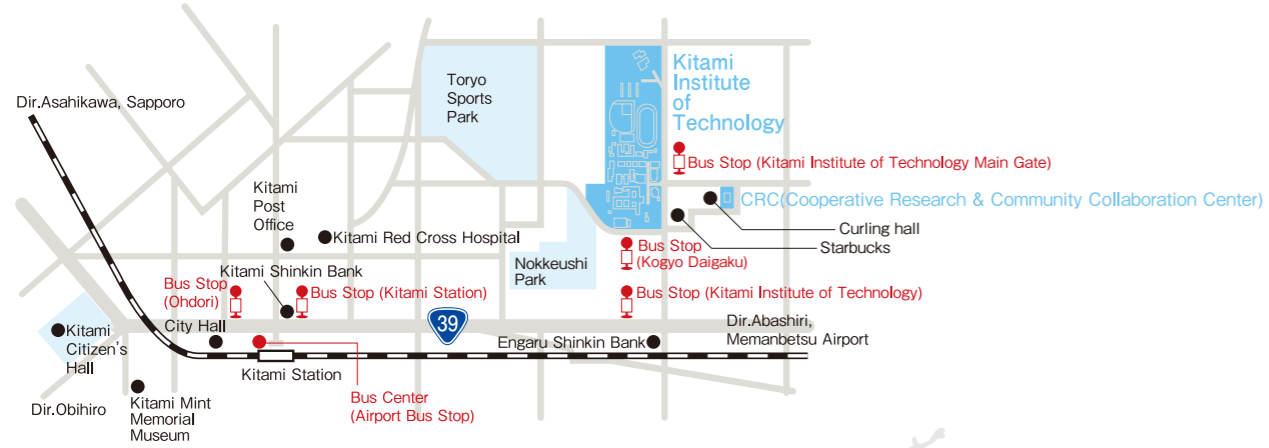


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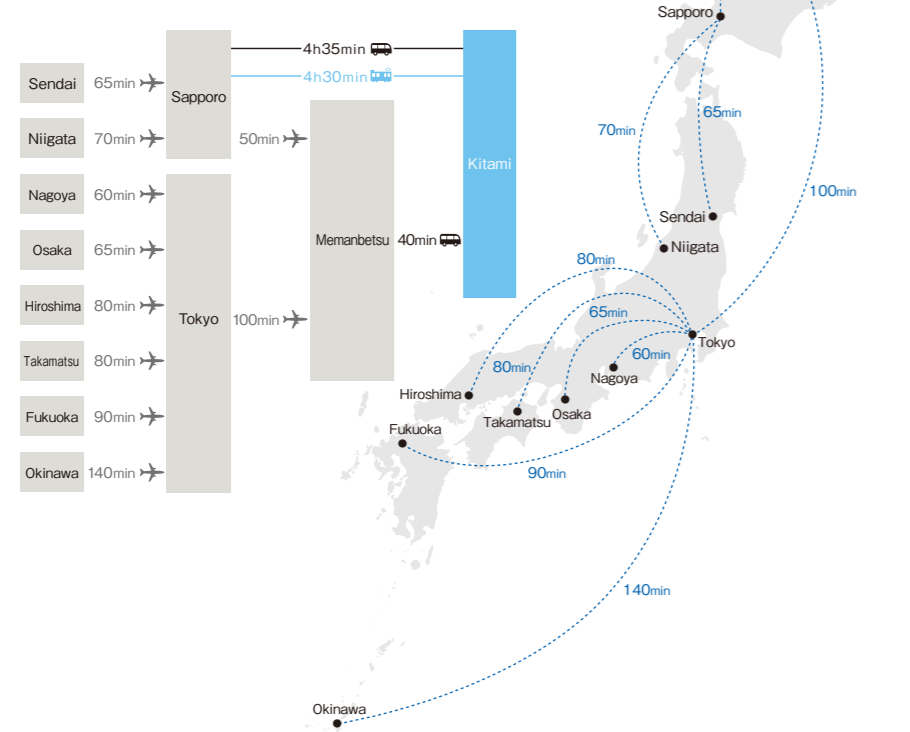
Access to Kitami Institute of Technology

○From Memanbetsu Airport : 40 minutes by airport bus or 40 minutes by car  
 ○From Kitami Station : 8 minutes by car or 10 minutes by bus



Access to Kitami City

Kitami is located near Memanbetsu Airport. It is convenient to travel by plane to Kitami.



360° Check out the KIT campus with "Panoramic View"! **VIRTUAL CAMPUS**

[www.kitami-it.ac.jp/admission\\_division/special/virtualcampus/](http://www.kitami-it.ac.jp/admission_division/special/virtualcampus/)



# Kitami

INSTITUTE of TECHNOLOGY

- ENERGY TECHNOLOGY
- GLOBAL ENVIRONMENTAL TECHNOLOGY
- ADVANCED MATERIALS TECHNOLOGY
- MEDICINE-ENGINEERING COLLABORATION
- ADVANCED MECHANICAL COMPUTING
- COLD REGION RESILIENCE ENGINEERING
- AGRICULTURE INDUSTRY COLLABORATION
- PRIMARY INDUSTRIES-ENGINEERING COLLABORATION
- WINTER SPORTS TECHNOLOGY

Aiming to develop technology that is in harmony with nature



# Engineering to create a new world, and challenges to explore new possibilities transcending the boundaries of humanities and sciences

Toshio Eisaka, president of Kitami Institute of Technology

Kitami Institute of Technology (KIT) is Japan's northernmost national university, located in a nature-rich region known for its primary industries. Our institution is committed to providing education and conducting research for sustainable social development. Engineering is the art of conceptualizing and creating, akin to art itself, and it serves as an academic realm that crafts a new world, one not merely envisioned by divinity.

We are nurturing highly specialized engineers through practical educational courses, including management, enabling them to tackle various social challenges by applying knowledge in key areas of mechanical, civil, electrical, information, and chemical engineering. Our undergraduate courses have been certified by the Ministry of Education, Culture, Sports, Science, and Technology's Program for Mathematics, Data Science, and AI Education. These courses are designed to foster the abilities needed to create new value by using data to address social issues with specialized engineering knowledge.

We operate four research centers: the Environmental and Energy Resources Research Center; the Research Center for Winter Sports Science; the Research Center for Okhotsk Agriculture-, Forestry- and Fisheries- Engineering Collaboration; and the Research Center for Strategic Assistance in the Prevention of Floods, Earthquakes and Regional Hazards. Additionally, we have established the AI Commons to support these research activities cross-sectionally and enhance our educational initiatives.

Education and research are intertwined aspects of the same basic quest for knowledge. Our expectation is to enable students to engage in research activities and to channel the outcomes of their research helping to improve the next educational curriculum. Additionally, KIT is a member of the Hokkaido Higher Education and Research System, which has integrated the management of KIT, Otaru University of Commerce, and Obihiro University of Agriculture and Veterinary Medicine since April 2022. Together with these two universities, KIT is planning innovative education and research methodologies that transcend the boundaries between the humanities and the sciences.

Although KIT is small in scale, it provides a warm and welcoming environment where everyone can interact face to face. With a ratio of approximately one instructor for every five students, our instructors not only facilitate learning but also serve as guides, supporting students in their daily lives and as they contemplate their futures. A university is not an isolated or lonely place; rather, it is deeply rooted in community, connected to the world, and evolves alongside society, from which it draws expectations and empathy. Together with the Hokkaido Higher Education and Research System, which encompasses primary, secondary, and tertiary industries, KIT is poised to embark on a new journey in this age of unpredictability, and we invite you to join us.



## Explore, discover and choose at KIT

# A story for your four years

### 01

Two-way approach: From regions to the world, from the world to regions

## Choosing a School

At the time of your entrance examination

You will choose the school that best suits you, based on the themes of your interest and the future path you want to pursue after referencing KIT's brochure and web pages describing its schools and course programs. You have one year to choose a course program after admission, which gives you enough time to identify what you want to do at KIT as you attend KIT's orientations regarding its course programs.

### 02

Encountering what you really want to do

## Choosing a Course Program

End of first year

You will choose a course program based on your experience in your first year at KIT and by gleaning more detailed information about subjects and policies offered in each course program, which are described in syllabuses as well as guidelines for choosing subjects.

#### Key point

It would be good if you can choose a course by factoring in your lab choice at the end of your third year.

### 03

Take a choice by looking ahead, transcending the bounds of course programs

## Laboratory Selection

End of third year

You will make a request to join a laboratory you really want to join, based on specialized learning you have experienced since the assignment of a course program, as well as laboratory orientations and interviews with senior students and teachers who head a laboratory. KIT has more than 70 laboratories. We are sure that you will find what you want to pursue.

### 04

Advancing to graduate school, become a member of the workforce and further expand possibilities

## Path After Graduation

It is advisable to advance to graduate school to further brush up your capabilities. Of course, it is up to you to maximize your ties with local companies to find employment, or use the knowledge and technology you have acquired here to work at prestigious companies.



## Applied Energy Course Program

In this course, students gain a comprehensive understanding of energy engineering, which is closely related to machinery, electrical/electronics, and chemistry, with topics ranging from gas hydrates, renewable energy and decentralized energy and energy-saving systems.

### Research themes

#### Laboratory of Fluid Mechanics

Fluid dynamic response characteristics of flow-induced vibrations of bluff bodies; Suppression of flow-induced vibration; Flow visualization; Flow characteristics in water under impinging air jets;

#### Integrated Electronics Laboratory

Development of technology for next-generation, highly-efficient flexible solar cells and wiring materials for 3-D LSI (large scale integration) chips; visualization of how delicious Okhotsk special products are.

#### Laboratory of Electric Machinery

Design and analysis of natural energy generation and power conversion systems; Development of control methods to stabilize the power grid

#### Inorganic Materials Chemistry Laboratory

Materials synthesis for all-solid state Li ion battery; Particle technology for electrode slurry preparation; Design of the advanced battery system; Chemical solution deposition for energy materials synthesis

#### Sustainable Resources Engineering Laboratory

Research on capture and recycle systems for carbon dioxide and methane systems, and fuel cells; Building research and development mythology that combine experiments, simulations, and data science

#### Engine System Laboratory

Improvement in starting diesel engines in cold temperatures; reduction of diesel engine emissions; laser spectroscopic analysis of combustion

#### Computational Fluid Dynamics Laboratory

Elucidation of turbulence mechanism; analysis and modeling of turbulent mass transport; analysis of heat and mass transport in turbulence on a rough surface

#### Power Engineering Laboratory

Planning and operation optimization of power and heat energy systems; development of fuel cell systems operating in tandem with renewable energy; development of gas hydrate power generation systems

#### Heat Transfer System Laboratory

Co-generation systems; highly efficient systems to store and discharge heat; generation of gas hydrates

#### Energy-related Solid State Chemistry Laboratory

Development of oxygen evolution catalysts for water electrolysis; Implementation of next-generation secondary batteries; Solution plasma treatment for the invention of state-of-the-art functional materials



## Environment Protection and Disaster Prevention Course Program

This course's curriculum consists of basic subjects on earth environment, cold region nature and environmental engineering and disaster prevention.

### Research themes

#### Geotechnical Engineering Laboratory

Research on liquefaction phenomena during earthquakes and submarine ground containing methane hydrates

#### Ground Freezing and Greening Engineering Laboratory

Elucidating the mechanism of and countermeasures against natural disasters involving the ground in snowy and cold environments

#### Cold Region Environment Laboratory

Research on structure and properties of ice sheets in Antarctica and Greenland

#### Snow and Ice Research Laboratory

Clarifying the impact of Global Warming on the Cryosphere (lake ice, snow depth and etc.), Research on curling (analysis of trajectory of a curling stone, clarifying the sweeping mechanism), Study on the stalagmites in Hyakujoujiki Cave

#### Ice-Covered Sea Laboratory

Development of technology to monitor sea ice dynamics to understand the global environment and develop ice-covered seas; research and development of sensors to detect snow and ice.

#### Snow and Ice Environment Laboratory

Physical analysis of ice cores and underground ice of permafrost in Antarctica and Greenland, as well as permafrost in the Shiretoko mountain range (climate monitoring).

#### Hydraulic Engineering Laboratory

Elucidating natural phenomena related to rivers in cold regions; research on controlling, using, protecting and harnessing for tourism of river ice

#### Urban Area and Traffic Planning Laboratory

Research related to infrastructure management with the aim of comprehensively understanding urban areas and traffic to create a sustainable community.

#### Concrete Engineering Laboratory

Research on the technology to construct concrete structures in cold regions and to enhance their durability

#### Seismic Engineering Laboratory

Prediction of earthquake damage; property evaluation and response analysis of seismic isolation equipment

#### Ground Reinforcement and Geosynthetics Laboratory

Research on geotechnical structures and ground behavior in cold regions

#### Geosphere Environment and Prevention Laboratory

Research on landslide process, periglacial landforms and permafrost.

#### Water Science and Environmental Engineering Laboratory

Water pollutant dynamics, environmental impact assessment, and social-ecological systems in aquatic environment

#### Gas Hydrates Laboratory

Analyzing natural and synthetic gas hydrates, and their thermodynamic and crystallographic properties

#### Snow and Ice Disaster Prevention Laboratory

Impact assessment on traffic of global warming-induced changes in snow and ice environments

#### Environmental Assessment and Measurement Laboratory

On-spot investigation of Lake Mashu as a part of a U.N. program; development of techniques for measuring anthropogenic mass in the lake water; establishing environmental assessment methods

#### River Disaster Prevention System Laboratory

Elucidating river channel formation mechanism; planning measures to prevent river-related disasters and protect river environments

#### Coastal and Estuarine Engineering Laboratory

Research on hydraulic phenomena related to water flow and waves in coastal and estuarine areas, and their associated transport mechanisms.

#### Transportation Engineering Laboratory

Human-centered Evaluation of Transportation Infrastructure

#### Infrastructure Materials Laboratory

Crack-development prediction in concrete structures and research of their self-healing mechanisms





## Advanced Materials Course Program

It is a top-priority task for humans to develop useful materials and technologies to solve problems related to the global environment. Students in this course learn necessary basic and applied sciences to take on this task and acquire knowledge and experimental techniques to develop materials to save energy and protect the environment as well as eco-friendly synthesis processes.

### Research themes

#### Biomolecular Chemistry Laboratory

Research related to biomolecules, in particular, polysaccharides, carbohydrates and carbohydrate polymers

#### Polymer Chemistry Laboratory

Synthesis of lenses and other optical materials in addition to polymers (plastics) that are highly heat-resistant

#### Medical Materials Laboratory

Development of biofunctional metal materials for treating illness and injuries; assessment of biomaterials using animal cells and cultured bacteria

#### Molecular Transformation Chemistry Laboratory

Development of advanced molecular transformation technology harnessing transition metal catalysts and organic molecular catalysts

#### Functional Materials Analysis Laboratory

Development of systems to detect chemical substances by using artificial cell membranes; analysis of E. coli bacteria found in rivers

#### Applied Electrical Engineering Laboratory

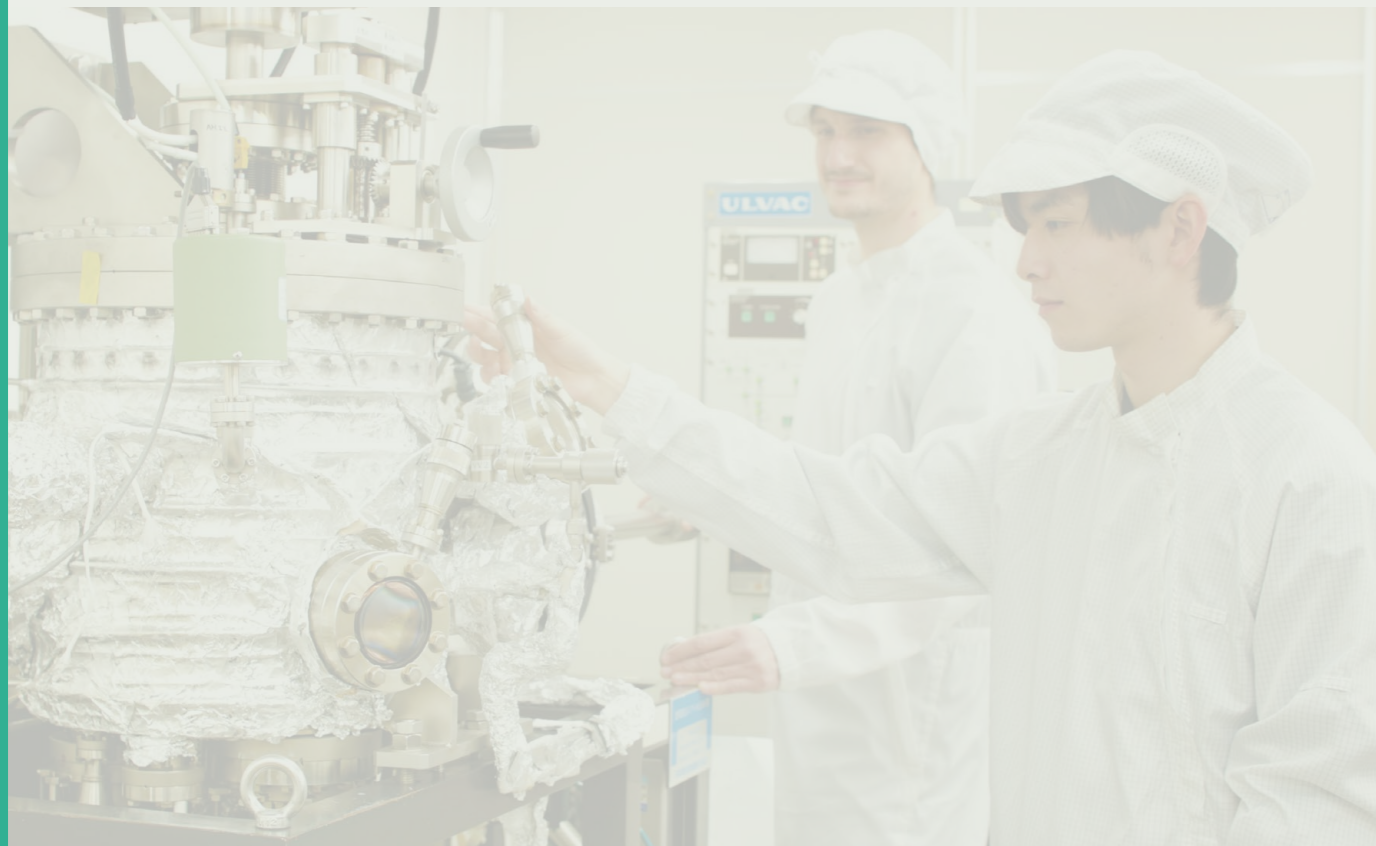
Development of superconducting devices by growing thin films and applying microfabrication

#### Electronic Materials Laboratory

Making highly stabilized thin films using nano structure and nano layers as well as resource/energy saving materials

#### Nano Material Functions Laboratory

Designing nano materials for multifunctional devices for storing clean energy



## Intelligent Machines and Biomechanics Course Program

In addition to dynamics, a basis of mechanical engineering, this program offers applied courses on control engineering, medical engineering, robotics, and other areas. It aims at cultivating students capable of identifying and solving problems facing a certain region or society and fostering engineers with broad but specialized perspectives and application skills.

### Research themes

#### Laboratory of Bio-Mechatronics

Research on the development of mobile robotics and harvesting robots for vegetables and fruits using artificial intelligence (AI); Dynamics and vibration control of vehicles and equipment in the outdoor fields; Motion analysis for winter sports.

#### Computational Mechanics Laboratory

Computational mechanics; materials science; sports engineering; biomechanics; metal materials; crystal plasticity; CAE (computer aided engineering)

#### Material Mechanics Laboratory

X-ray diffraction; ultrasonic; material strength; biological hard tissues; biomineralization

#### Complex Systems Science and Informatics Laboratory

Synthetic organisms; neural networks

#### Laboratory of Molecular Machines

Developing chemomechanical materials that change color and shape in response to various chemical stimuli. Also studying mechanochemical materials whose molecular recognition ability is changed by mechanical stimuli.

#### Advanced Manufacturing Engineering Laboratory

Industry 4.0/5.0; 3D printing; Digital manufacturing commons; Data science for manufacturing; Sustainable product development; Reverse engineering; Remanufacturing

#### Robotics and Artificial Intelligence Laboratory

Autonomous mobile robots; service robots; computer vision; artificial intelligence

#### Applied Computer Science Laboratory

Artificial intelligence for medical purposes (diagnostic support and natural language processing); public health informatics (monitoring contacts and infections on campus and in society at large); health emergency risk management (identifying viral infection paths and considering ways of controlling viral proliferation); assessment of policies on medical informatics.





## Information Design and Communication Course Program

The course program aims to train and produce information design and communication engineers who have mastered the principles and fundamentals of both software and hardware. Students will acquire practical programming skills using the Python language. They also acquire skills in accumulating and conveying information.

### Research themes

#### Wave Informatics and Communications

##### Computational Electromagnetics Laboratory

Research related to computational electromagnetics; development of computer-aided design (CAD) in the electromagnetic field (including parallel computing); bioelectromagnetics; optimal design of electromagnetic devices

##### Wave Electronics Laboratory

Analysis and design of microwave circuits, optical waveguides and elastic surface waveguide on elastic surface; design of hologram elements

#### Data Science

##### Knowledge and Information Processing Laboratory

Application of statistical decision theory to machine learning (games and facility maintenance, etc.); inspiration support for recipes

##### Text Information Processing and Informatics Laboratory

Natural language processing and its applications; emotion information processing, tourism informatics, curling informatics and educational engineering

#### Information Optics

##### Big Data Analysis Laboratory

Extragalactic astronomy, observational astronomy, early Universe, big data analysis, digital image processing, research on distant galaxies using artificial intelligence

##### Image Processing Laboratory

Development of solar optical systems; adaptive optical systems for developing microscopes; high-resolution methods to observe celestial bodies; analysis of galaxy images by AI

##### Optical Engineering Laboratory

Application of multiple optical scattering, near infrared spectroscopy and computational and information optics to measure the physical and substance information of snow, ice and farm products

##### Communication Systems Laboratory

Information and communication engineering, electromagnetic engineering, optical engineering, Internet of Things (IoT), Intelligent Transport Systems (ITS), automotive communication, automatic design optimization; CAD

##### Computational Wave System Laboratory

Research on hybrid artificial intelligence using optical waves and computers; development of new methods for simulating dispersion of light and radio waves; development of holographic elements

##### Integrated Systems Laboratory

Research related to underwater acoustic communication and positioning

##### Information and Communication System Engineering Laboratory

Feature extraction from sound source; denoising

##### Nuclear Science and Information Engineering Laboratory

Data mining methods using academic information databases; tourism support using mathematical models

##### Robot Control and ITS Laboratory

Research on ball-wheeled vehicles and quadruped robots; development of vehicle guidance systems that are operable even in bad weather

##### Information Photonics Laboratory

Research on polarized colors and functional holograms; development of new optics teaching materials

##### Optical Fiber Transmission Laboratory

Research on microplasma in optical fibers and the reliability of optical fiber transmission paths under high optical input

##### Optical Information Processing Laboratory

Research on new methods of information recording; analysis of optical properties of transparent marine organisms and imitating optical properties by forming microstructures

##### Optoelectronics Laboratory

Research related to optical information processing that uses optical devices



## Civil Infrastructure Course Program

The course program aims at nurturing professional engineers who can engage in the design, construction, maintenance and management of social infrastructure for creating the future of the region such as “lifeline systems in cold regions,” “an advanced information and communications society” and “infrastructure facilities suitable for the region” to cope with a chronically low birthrate and a rapidly aging society.

### Research themes

##### River Disaster Prevention System Laboratory

Elucidating river channel formation mechanism; planning measures to prevent river-related disasters and protect river environments

##### Coastal and Estuarine Engineering Laboratory

Research on hydraulic phenomena related to water flow and waves in coastal and estuarine areas, and their associated transport mechanisms.

##### Transportation Engineering Laboratory

Human-centered Evaluation of Transportation Infrastructure

##### Infrastructure Materials Laboratory

Crack-development prediction in concrete structures and research of their self-healing mechanisms

##### Geotechnical Engineering Laboratory

Research on liquefaction phenomena during earthquakes and submarine ground containing methane hydrates

##### Ground Freezing and Greening Engineering Laboratory

Elucidating the mechanism of and countermeasures against natural disasters involving the ground in snowy and cold environments

##### Water Science and Environmental Engineering Laboratory

Water pollutant dynamics, environmental impact assessment, and social-ecological systems in aquatic environment

##### Snow and Ice Disaster Prevention Laboratory

Impact assessment on traffic of global warming-induced changes in snow and ice environments

##### Hydraulic Engineering Laboratory

Elucidating natural phenomena related to rivers in cold regions; research on controlling, using, protecting and harnessing for tourism of river ice

##### Urban Area and Traffic Planning Laboratory

Research related to infrastructure management with the aim of comprehensively understanding urban areas and traffic to create a sustainable community.

##### Concrete Engineering Laboratory

Research on the technology to construct concrete structures in cold regions and to enhance their durability

##### Seismic Engineering Laboratory

Prediction of earthquake damage; property evaluation and response analysis of seismic isolation equipment

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Research on geotechnical structures and ground behavior in cold regions

##### Geosphere Environment and Prevention Laboratory

Research on landslide process, periglacial landforms and permafrost.

##### Snow and Ice Research Laboratory

Clarifying the impact of Global Warming on the Cryosphere (lake ice, snow depth and etc.), Research on curling (analysis of trajectory of a curling stone, clarifying the sweeping mechanism), Study on the stalagmites in Hyakujoujiki Cave

##### Ice-Covered Sea Laboratory

Development of technology to monitor sea ice dynamics to understand the global environment and develop ice-covered seas; research and development of sensors to detect snow and ice.



## ▶ Biotechnology and Food Chemistry Course Program

The course program is designed to train the basic skills of chemists and bioengineers especially in the fields of biotechnology and food chemistry. The expertise are widely spread across plant physiology, molecular engineering, process engineering, organic and inorganic chemistry, environmental chemistry, and food science and technology. Students can develop research ethics and communication skills. Solutions of regional issues are also studied in the course.

### Research themes

#### Food Process Engineering Laboratory

Elucidating the process of food processing that uses lactic acid bacteria and the functions of microorganisms in foods

#### Food and Nutritional Chemistry Laboratory

Anti-allergic, anti-inflammatory, and anti-aging effects of food-derived polyphenols using cell lines.

#### Bioprocess Engineering Laboratory

Research and development for microbial bioprocesses; AI assisted microbial medium optimization; study of interaction between microalgae/plants and microorganisms.

#### Natural Products Organic Chemistry Laboratory

Development of functional green pigments derived from hakka (Japanese mint); evaluating the functions of hakka-derived polyphenol; synthesis of optically active aroma compounds; aroma evaluation

#### Plant Molecular Engineering Laboratory

Mechanism of plants' environmental response; elucidation and application of adjustment mechanism of useful substances (secondary metabolites) produced by plants.

#### Food Science Laboratory

Molecular breeding of Lentinula edodes (shiitake mushroom); analysis of agricultural products fermented with edible mushrooms

#### Biotechnology and Eco-Friendly Materials Laboratory

Development of new biodegradable plastics and assessment of their physical properties and environmental impacts

#### Bioinorganic Chemistry Laboratory

Development of inorganic materials to improve drug efficacy

#### Environmental Analytical Chemistry Laboratory

Development of drug separation and recovery technology using air bubbles



## ▶ Regional Management Engineering Course Program

With specialized engineering programs at its base, this course allows students to acquire abilities needed to launch a company or projects, nurture talents to manage and administer them and develop sound engineering and technology know-how. The course is designed to foster "human resources that can serve as leaders in society while implementing practical values of engineering skills" in various professions such as engineers, researchers, entrepreneurs and corporate managers by using both engineering and management abilities.

### Research themes

#### Industry-Academia-Government Collaborative Value Creation Laboratory

- Enhancing a university's value through industry-academia-government collaboration
- Outreaching and public relations to strengthen a university's functions
- Building a "corporate identity" of a university as a business
- Assessing and analyzing industry-academia-government collaborative activities (joint research and activities related to intellectual property)

#### Intellectual Property Laboratory

- Research on strategic management of intellectual property
- Exercising and non-exercising of intellectual property rights in an Internet-based society
- Research on using intellectual property in the manufacturing sector

#### Management Engineering Laboratory

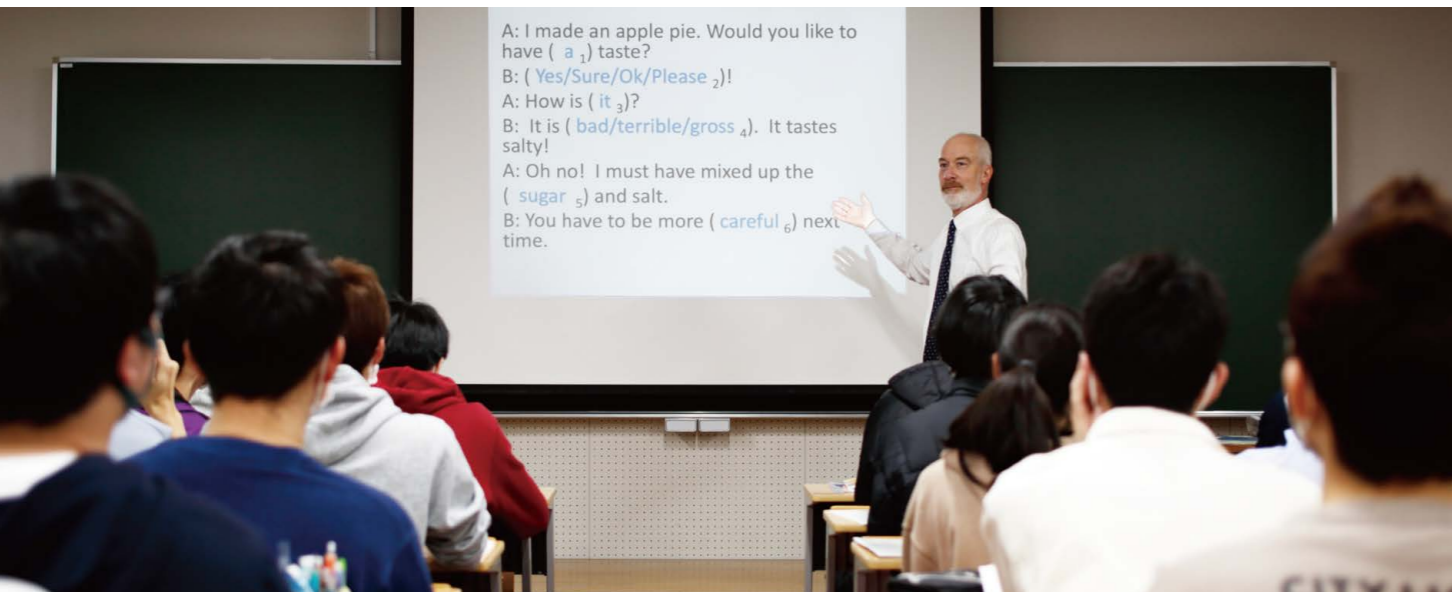
- Research on nursing workers' job satisfaction and stress-causing factors
- Behavioral analysis of workers at work sites
- Research on workers' job satisfaction and temporal changes in their willingness to continue their job as well as correlations between job satisfaction and the length of their employment.



# Humanities and Social Sciences Common Course



Engineering experts, who are engaged in research and development in a wide range of fields from infrastructure to systems directly connected to people's lives, are necessary for providing insights into social phenomena and superb skills to associate with other people, in addition to advanced knowledge and technologies.



A: I made an apple pie. Would you like to have ( a ) taste?  
 B: ( Yes/Sure/Ok/Please )!  
 A: How is ( it )?  
 B: It is ( bad/terrible/gross ). It tastes salty!  
 A: Oh no! I must have mixed up the ( sugar ) and salt.  
 B: You have to be more ( careful ) next time.

## Characteristic lectures

### Science and Technology, and Humans

The progress of science and technology is a "one-way street," meaning there is no backtracking. Advanced science and technology play an integral role in our daily life, making us more affluent and giving us more lifestyle options to choose from. On the other hand, we are paying the price for affluence and facing situations where it is difficult to make suitable choices. Living our lives without being at the mercy of science and technology requires being more curious, learning more and being open to a broader horizon of possibilities. This class will provide students with opportunities to do that.



### Health Science

Young people in Hokkaido tend to have lower physical fitness levels compared with the national standard. That's because of the drastic decline in physical activity during winter. The same is true of KIT students. This class is aimed at enabling students to acquire knowledge of health and physical fitness, which will enhance their awareness of how to manage their own health. Students are encouraged to acquire healthy lifestyle habits, including sports and exercise.



## Research

In the humanities and social sciences, research in **two fields** are conducted.

### Humanities

Ethics, linguistics, research on physical education and sports, modern art theories, English and American literature, studies of Shakespeare and western art history.

### Social sciences

Research on economic principles and Russian law.

# Graduate School

There is no end to research in science and technology. In the highly networked information society, the latest technologies and systems can be distributed in moments. In such a situation, the necessary knowledge and skills accordingly change day to day. Graduate school is a place where students can gain the latest knowledge and deepen their thoughts. Students gradually formulate and consolidate their future visions through master's and doctoral course studies.

## Graduate School of Engineering Master's Program

Engineering / Five specialized courses

### Broad perspectives acquired based on the fusion of diverse fields and flexible thinking ability

KIT's education system is aimed at enabling students to acquire higher levels of specialized knowledge, based on abilities nurtured in undergraduate education. This will enable the university to develop engineering-related human resources who can play an active role in society.

## KIT's financial support for graduate students

### Tuition waiver programs

#### Master's Program

Two tuition waiver programs are available  
 1. For those who applied for and were deemed qualified for tuition waivers for the graduate school when they were third-year undergraduate students at KIT (under the so-called tuition waiver reservation system), all or half of tuition is waived. To find out who is eligible for this program, please refer to the KIT website.  
 2. Those who plan to advance to the KIT doctoral program are eligible for a total tuition waiver provided that they apply for and are deemed to be qualified for the program.

#### Doctoral Program

Under the program, students' half of or total tuition is waived, in addition to the admission fee. Even if they do not qualify for a total tuition waiver, a scholarship providing the amount equivalent to the admission fee and tuition is available.

### Scholarship systems

Scholarships are available for those who plan to work in the city of Kitami for more than three years upon completing the Master's Program.

Scholarships are available for doctoral students, except for those who have a regular job while attending the school.

## Admission Policy of the Graduate School of Engineering, Kitami Institute of Technology

Kitami Institute of Technology (hereafter the University) is located in the Okhotsk region of eastern Hokkaido and is blessed with an abundance of nature. Under the slogan "development of technology in harmony with nature," the University is devoted to promoting research that can contribute to development of the local community as well as global society. It is also committed to the development of human resources in the field of scientific technology, with the aim of its graduates playing an active role in a wide range of social sectors. To achieve such goals, the Graduate School of Engineering is looking for applicants with the following qualities and talents.

### Master's Program

1. Willingness to contribute to sustainable development of society as a responsible professional engineer
2. Basic academic skills and cooperative attitude needed to identify the essence of engineering problems, tackle them together with others and tenaciously seek solutions
3. Determination to contribute to development of new scientific technology, without any stereotypical views

### Doctoral Program

1. Professional knowledge and broad perspective equivalent to master's course completion in the field of engineering
2. Interested in local and international issues, and a strong desire to realize sustainable welfare through science and technology
3. Ability to communicate appropriately with a wide range of people in Japan and overseas, and work together to solve problems



# INTERNATIONAL EXCHANGE

Today's globalization and increasing cross-border exchange of human resources or products make it necessary for people to have an open mind and multifaceted ideas and approaches. KIT has established study-abroad and other exchange programs with its numerous partner institutions to provide students with an adequate environment not only to learn how to think out of the box and experience advanced research, but also develop an international way of thinking as a world citizen.



## International partner institutions

### International Exchange

At present, KIT has concluded international academic exchange agreements with 40 universities in 19 countries / regions, and the International Center has established various types of exchange programs, such as study-abroad programs, language study tours during summer or winter vacations, and more. Currently, the total number of international students (undergraduate, graduate, exchange students) is around 100. There is a variety of international exchange events throughout the year, including cultural exchanges between international students, Japanese students, faculty and staff as well as citizens of Kitami City.

#### Study-Abroad Opportunities

Students enrolled at KIT have the opportunity to study abroad at one of our partner universities. Based on academic exchange agreements KIT has with those partner institutions, students are exempt from paying tuition fees at the partner institution. In some cases, it is possible to transfer credits. There is much to gain from studying abroad, and we strongly encourage all students to give it a try and study at one of our partner institutions.

#### Language Study Tours

Many students at KIT have joined our language study tours organized at universities in North America, Asia and Europe. Financial support is provided by "KIT Genki-Kai," a sponsoring society established by companies and citizens of Kitami City, alumni and others.

#### Opportunities for Giving Presentations Abroad

Graduate students in particular are provided with opportunities to give research presentations abroad, for example, at international conferences. Part of the travel expenses is covered by the university.

### Interview with an international student

#### Co-creative Engineering Course

**Ngo Thi Thu Thao**  
(Entered KIT in the 2023 academic year; from Vietnam)

I am currently learning about improving farming practices. My native country of Vietnam has a thriving agricultural sector. But it still has many problems that must be addressed. KIT has conducted a variety of agriculture-related research projects. I am especially interested in analytical work on agricultural residues and their detoxification. Professors and senior students provide enthusiastic and considerate support to international students so that we can concentrate on our research. Kitami has a good climate and natural environment, and the local residents are very friendly. So, it is a very comfortable place to live. I want to return to Vietnam so that I can contribute to society by utilizing the knowledge and technology I have learned here.



#### International Center & International Lounge

The International Center at Kitami Institute of Technology (KIT) was established in April 2004 with the aim of promoting the acceptance of international students and researchers as well as sending Japanese students abroad. It is committed to promoting exchange projects between KIT and universities abroad, gathering information as well as providing advice and support to international students in study, research and life in Japan. The International Lounge, which is located adjacent to the Center, is a place where students can come any time to meet friends, chat with other students or use the Internet to collect information or data.



<https://ic.er.kitami-it.ac.jp/jp/index.html>

## Information for International Students

International students can enter KIT as regular full-time international students or short-term exchange students (limited to partner institutions).

### 1) Undergraduate entry requirements for international students

- The applicant is a non-Japanese citizen.
- The applicant has taken the examination for Japanese University Admission for International Students (EJU) in "Japanese as a foreign language", "Mathematics (Course 2)", "Science (Physics)" and "Science (Chemistry)".
- The applicant has completed a 12-year curriculum in an education institution based on a foreign country's education system.

### 2) Graduate entry requirements for international students

- The applicant is a non-Japanese citizen.
- The applicant has successfully obtained a degree equivalent to a Bachelor's degree for entering the Master's course or a degree equivalent to a Master's degree for entering the Doctoral program. Persons who would like to apply for graduate school should first find a suitable laboratory and arrange for a KIT faculty member to serve as an academic advisor. Applicants are required to contact potential academic advisors directly to obtain information about application procedures.

### 3) Short-term student exchange program

The short-term student exchange program is a program through which international students enrolled at KIT's partner institutions are given the opportunity to study in Japan for six to twelve months. The exchange program runs from early April to March of the following year, and students are offered a choice of two admission periods: early October or early April. Application deadlines are as follows: late April for admission in early October, or late November for admission in early April.

## Program Contents

### 1) Japanese Language Program (for full-time international students and short-term exchange students) Following classes are offered for international students to improve their Japanese language skills.

- Japanese
- Topics on Japan
- Japanese Media

### 2) Japan Intercultural Studies (in English and Japanese) (for full-time international students and short-term exchange students)

### 3) A wide range of courses in the student's major field of study (in Japanese, partly in English)

### 4) Short-term exchange students are free to design their own curriculum, balancing their interest in Japanese language and Japan intercultural studies with their desire to pursue their 'major'. They are eligible to register for any course offered to degree-seeking students at KIT.

## Events

Throughout the year the International Center organizes various events such as field trips, seminars, and informal gatherings. One regular main event is the International "C" Hour, a monthly event providing a place for cultural exchange between international students, Japanese students, faculty and staff as well as citizens of Kitami city. The letter "C" of International "C" Hour stands for Conversation, Chatting, Culture, Cookies, Coffee and more. It aims to deepen understanding and promote friendship among the 30-50 participants. The event offers a variety of activities, such as introducing Japanese customs and traditions, students talking about their experiences studying abroad, or playing games together while enjoying drinks and snacks.

## Tutors

In general each international student entering KIT will be assigned a tutor. The tutor will support new students in many ways to settle into their new environment, for example by helping with all sorts of necessary procedures and formalities as well as providing advice regarding studies and daily life.

## Housing for international students and researchers

KIT provides two housing options on campus for international students and researchers: International Residence and Student Dormitory. Some students choose to live off-campus in private apartments or lodgings.

## International Residence

- 1 couple room for married couples and 2 family rooms available
- Room rental rate (per room): ¥9,500 per month (couple), ¥14,200 per month (family)

## Student Dormitory

- 20 single rooms available for international students
- Full-time international students and Japanese students are treated equally.
- Room rental rate (per room): Around ¥20,000 per month (including utility)

## Financial Information

### 1. University Fees (for full-time international students)\*

- Fees are accurate at the time of printing, but subject to change without notice.
- Entrance fee: ¥282,000
  - Tuition fee: ¥535,800
- \*The payment of tuition fees shall be waived for students enrolled in partner institutions with which KIT has concluded tuition waiver agreements.

### 2. University Fees (for research students)

- Fees are accurate at the time of printing, but subject to change without notice.
- Examination fee: ¥9,800
  - Entrance fee: ¥84,600
  - Tuition fee: ¥29,700 per month

### 3. Living Expenses

Monthly Average Total Expenses: ¥70,000

The above is an estimation of the monthly expenditure of a reasonably thrifty student at KIT. Expenses will vary according to personal lifestyle.

	Student Dormitory	Monthly rent (including utility cost): Around ¥20,000
	Apartment Off-Campus	Monthly rent: from ¥25,000 + utility cost from ¥10,000/month
	Personal Expenses	Around ¥50,000/month

### 4. Contact information for further information and enquiries

International Center, Kitami Institute of Technology  
165 Koen-cho, Kitami-shi, Hokkaido 090-8507 Japan  
Tel : (+81)(0) 157-26-9370  
Fax : (+81)(0) 157-26-9373  
Email : kenkyu05@desk.kitami-it.ac.jp



# CAMPUS LIFE

Enjoy! campus life!

There are a variety of events and clubs at KIT. Let's enjoy campus life!



**SPORTS**  
You can enjoy winter sports, too!



**FOOD**  
The food here is delicious!



## EVENT CALENDAR

4 APR.

- Entrance ceremony
- New student orientation
- Start of first semester
- Health check-ups

6 JUN.

- University dormitory festival
- University festival
- University founding anniversary

7 JUL.

- Open campus

8 AUG.

- Summer vacation
- Weird science lab
- First semester final examination
- Graduate school entrance examination
- All Japan National Technological Universities Kendo and Judo Championship

10 OCT.

- Start of second semester
- Screening of applicants based on comprehensively evaluating their learning abilities (Sogo-gata)

12 DEC.

- Winter vacation
- Screening of applicants based on school recommendations
- Job placement seminar

1 JAN.

- Common test for university admissions

2 FEB.

- Second semester final examinations
- Graduate school entrance examinations

3 MAR.

- Entrance examination (Second phase)
- Graduation ceremony
- Spring break

Let's try new things!

## EVENT

### Open Campus

Open Campus is held every summer to enable visitors to see and experience the university's research and educational activities, in addition to its campus and learning environment. Visitors can learn about undergraduate and graduate courses, attend a campus tour guided by students, and eat cafeteria meals. Each course program also offers a hands-on learning session to make your day at KIT worthwhile.



### University Festival

The university festival facilitates university-community exchanges. It offers students a good opportunity to brush up their creativity and communication abilities apart from their training in specialized fields. The festival also features participation by local merchants and booths set up by international students, attracting big crowds every year. Laboratories are open to the public and introduce their research activities, which are usually unfamiliar to people outside the university, in an easy-to-understand manner.



Let's join a club!

## CLUB activities

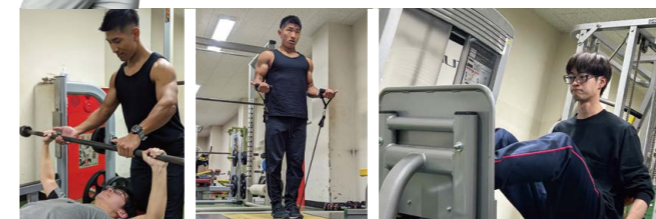
Featuring attention-grabbing clubs

### Fitness Club



This is a new club, established in 2022. Its activities involve weight training, muscle-building, body-sculpting and health promotion. Unlike schools in primary and secondary education, universities do not offer many physical education classes. As a result, many students have lower fitness and health levels. It would be worthwhile for students who are interested in building-up, dieting and fitness maintenance to join our club!

Head of the club: Shunsuke Sato  
(Entered KIT in the 2021 academic year; graduate of Toyohashi Chuo Senior High School)



### Sports-oriented clubs

Ski team/Judo club/Trampoline club/Table tennis club/Men's basketball club/Men's volleyball club/Kendo club/Soccer club/Kyudo (Japanese archery) club/Badminton club/Cycling club/Athletics club/Hard tennis club/Lawn tennis club/Women's basket club/Aviation club/Softball club/Curling club/Mountaineering club/Soft tennis club/Wandervogel (hiking) club/Dancing club/Mixed volleyball club/Boxing club/Handball club/Rugby club/Nochis (space development) club/Sailing club/Fishing club/Molky club/Softball club/Fitness club/Snowboarding club/Aikido club

### Comprehensive Art Research Club



The club is aimed at students who want to create something or start new things in any genre, be it painting, illustration, digital art, handicraft or craftsmanship. Club members will receive advice whenever they have questions in their creative activities from senior students who are well-versed in areas such as painting and handicrafts. Pursuing artistic activities while you are a student will nurture your individuality and dreams.

Head of the club: Keishu Yamazaki  
(graduate of Iwate Prefectural Miyako Senior High School)

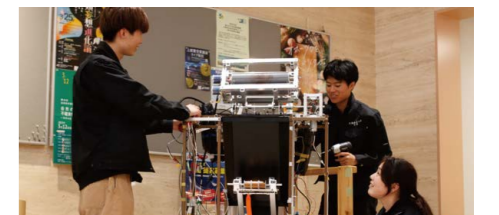


### Cultural clubs

Light music club/Astronomy club/Information processing technology club/Brass band club/Go and shogi club/Railway club/Comprehensive art research club/Juggling and magic club/ACE (A cappella Chorus Ensemble)/Models club/DDI/Competitive mahjong club/Modern visual culture club/KIT sign language club/Board game club/DJ club/Poker club/Certification club/Pokemon club

### Robot Contest Team

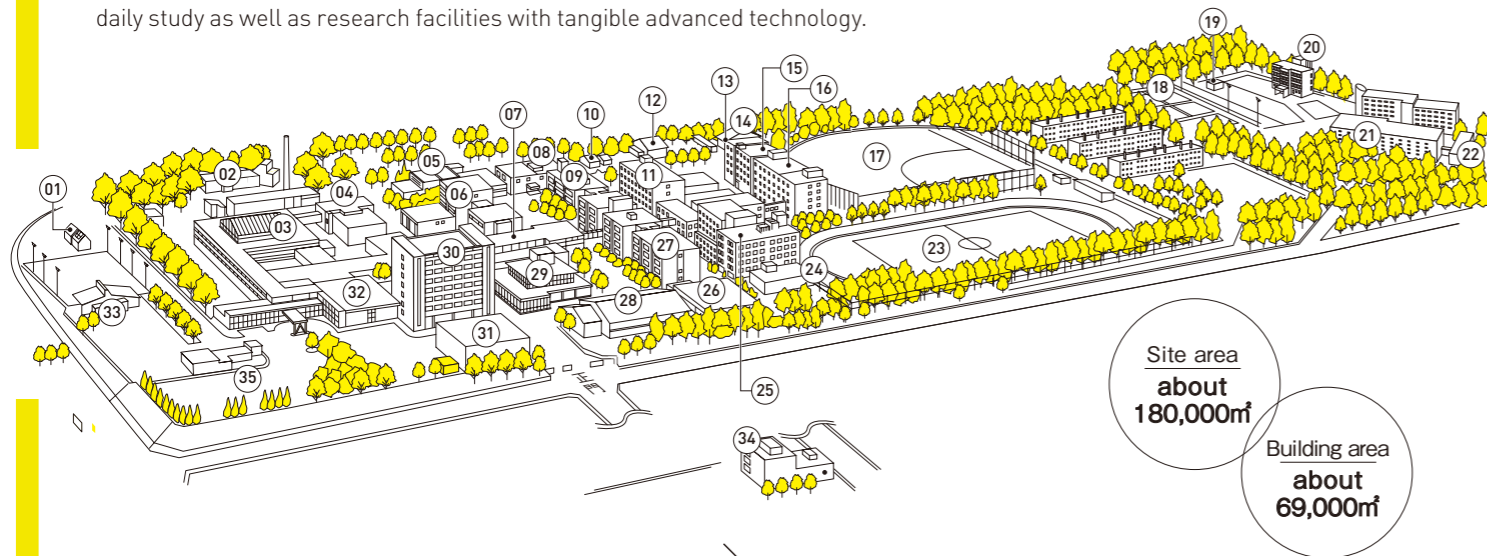
Students enrolled in different course programs and different years and who like to make things have teamed up to participate in NHK's robot contest for university students, in which they have competed many times. Team members participate enthusiastically and daily in activities involving their hand-made robots, including demonstrations at the university festival.



# FACILITIES of CAMPUS LIFE

## A spacious campus with a variety of facilities supporting education and research

Buildings occupy about 69,000 m<sup>2</sup> on a land area of about 180,000 m<sup>2</sup>, i.e. four times as large as the Tokyo Dome. A total of more than 2,000 undergraduate and graduate engineering students study here. The campus includes educational facilities for daily study as well as research facilities with tangible advanced technology.



- |                                 |  |  |   |
|---------------------------------|--|--|---|
| 01 Guest House Shirakaba        | 10 Facilities for Extracurricular Activities | 19 Hybrid Plant Experiment Ridge           | 27 Buildings 9-10                           |
| 02 Natural Energy Laboratory    | 11 Buildings 11-12                           | 20 Dormitory (Hokuou-ryo, for female only) | 28 First Gymnasium                          |
| 03 Building 1                   | 12 Kyudo Hall (archery training hall)        | 21 Dormitory (Hokuen-ryo)                  | 29 Library                                  |
| 04 Building 2                   | 13 Building 17                               | 22 International Residence                 | 30 Building 3                               |
| 05 Cafeteria and Stores         | 14 Facilities for Study Camps                | 23 Athletic Field                          | 31 Lecture Hall                             |
| 06 Buildings 5-6                | 15 Building 16                               | 24 Information Processing Center           | 32 Administrative Office                    |
| 07 Building 4                   | 16 Building 15                               | 25 Buildings 13-14                         | 33 Budo Hall (gymnasium for martial arts)   |
| 08 Health Administration Center | 17 Baseball Field                            | 26 Second Gymnasium                        | 34 Center for Regional Community            |
| 09 Buildings 7-8                | 18 Tennis Court                              |  | 35 Security gatehouse (general information) |

### Library

The library holds approximately 150,000 books, journals, periodicals, electronic book journals, newspapers, language learning materials as well as DVDs. PCs can be borrowed as well. It provides about 400 seats in a variety of rooms and areas, such as single study rooms, multi-purpose rooms and group study rooms for studying in groups while having discussions, or the PC area for self-study. The so-called Communication Hall of the Library where food and drinks are permitted provides a space not only for studying, but for taking breaks in between classes. The library is open seven days a week and on national holidays (except for year-end and New Year's holidays and during spring break).



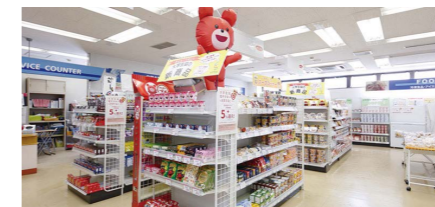
### Communication Atrium

A free space for students to meet and interact.



### Stores

The stores on campus offer stationery, clothing, food, books, computers, electronic goods, airplane tickets and more.



### Cafeteria

Students can enjoy a rich selection of dishes at affordable prices in the cafeteria.



### Health Administration Center

The Health Administration Center with one doctor and one nurse was established to preserve and promote the health of students, faculty and staff. The Center performs periodic health examinations in spring every year, and contributes to health education including disease prevention, early detection, and guidance regarding health care. It also provides health consultations, first-aid treatment as well as professional health counseling.

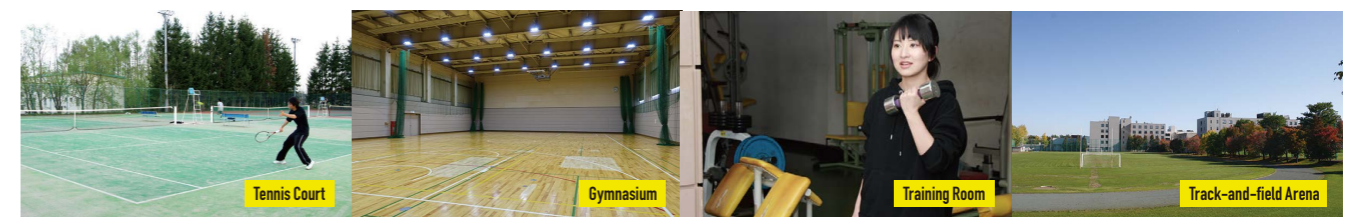


### PC Room

This common facility on campus manages various services related to information and communication technologies necessary for education, research and contribution to the local community in an integrated manner for users. A total of 274 PCs are available at the facility. Many apps are installed on the terminals, which can be accessed from inside and outside of campus at times when students are not attending classes.



### Sports Facilities



### Center for Regional Community

The center is tasked with promoting industry-academia-government collaboration to harness KIT's research functions for the benefit of society. Its roles include coordination to find matches between each researcher's technology seeds with society's needs and a contact for those wishing to contribute to the community and society at large. Its research facilities include a low-temperature experiment room that can recreate an environment of minus 50°C.



### Handicraft Studio

A facility that provides place and tools for students to do simple handicraft. Technical staff is available to give advice at any time.



### Open Facility Center

The Open Facility Center provides faculty, staff and students access to high-performance instruments for research. Technological staff specialized in these instruments maintain all equipment and provide technical guidance.

