

# Akita University

2016 Edition

# Outline

GENERAL INFORMATION BULLETIN

# 2016

A K I T A U N I V E R S I T Y



# AKITA UNIVERSITY 2016

GENERAL INFORMATION BULLETIN

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## Message from the President

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Here at Akita University, following an extensive re-organization in 2014, we have set out on a new beginning as an organization offering four faculties: the Faculty of International Resource Sciences, the Faculty of Education and Human Studies, the Faculty of Medicine and the Faculty of Engineering Science. As of this year, we are also organized as an integrated research facility into four graduate schools: Graduate School of International Resource Sciences, Graduate School of Education, Graduate School of Medicine and Graduate School of Engineering Science. Hence our organization has become stronger, a bastion fully focused on innovative research and education, which is the mission of the university as expected by society.

We have achieved this after a two year journey, in line with our vision: 1) to develop far-sighted leaders both for the world and the community 2) to create a future with an outlook on both the community and the wider world 3) to build a plentiful society, existing in tandem with the community 4) to aspire to a world with strong ties to the community. The foundation of this is innovative research, contributing to the world and to the community, as well as the development of the talent which can carry out this research. The Ministry of Education, Culture, Sports, Science and Technology, is reforming university management expense grants and has divided the National University Corporation into three groups: 1) university groups aiming to develop international-level educational and research bases 2) university groups aiming to develop national educational and research bases 3) university groups aiming to develop core bases for regional reinvigoration. The policy has outlined is based on an assessment of these different objectives. Akita University is selecting the third objective - university groups aiming to develop core bases for regional reinvigoration. Now, more than ever, there is a need for innovative research and education which makes a significant contribution to the region and the community.

In order to achieve this objective, with the University's research and education organization now in place, the first and foremost requirement is a reform of our teaching staff's approach and sense of purpose. I think that if all teaching staff are fully focused on what needs to be done in order to enhance our contribution to the community through the innovative research we do, we will make significant strides in our research and education initiatives.

This year, we have launched the Center for Regional Development because it was set up to help further the regional regeneration of Akita Prefecture, it is no exaggeration to say that the Center's activities make an absolutely critical contribution to the local community. In relation to regional cooperation, I consider the adoption of COC+ (Center of Community) to be something which makes an ever larger contribution to the region, enhancing the reputation of Akita University, in addition to the regional support initiatives already undertaken by the COC project and our Development department. In the industrial sector, we also have high expectations, and relish the opportunity of contributing to boosting the employment rate of graduates in the prefecture, and to developing local businesses through establishing research projects with links to key initiatives in Akita Prefecture.

To this end, in terms of the "reform of approach and sense of purpose" required, I think there are two important points to be made. Firstly, the Faculty of Education and Human Studies and the Regional Culture Department form part of the Regional Co-operation Department, within the Center for Regional Development. The teachers and students of the Regional Culture Department should be in no doubt of the significance of the contribution they are making to the region, by studying regional culture and increasing their depth of knowledge of Akita. The second point is the importance of the activities and workings of the Faculty of Engineering Science. Thus far, the priority placed by the university on innovative research is clearly evident from results, in respect of everyone's own field of research and education. At the same time after this, as we revisit our research innovations from the perspective of their contribution to the region, I think that flexibility will also become more important, in terms of expanding and adapting the research that we do.

If we draw strength from the results achieved by each faculty, and strive to be a university befitting our community as the regional base of learning, then our conviction that we can build Akita University as the cornerstone of the community follows on naturally from this. Let us now work towards the flawless implementation of the Mid Term Objectives and Plan.

Akita University President

**Dr. Fumio Yamamoto, M.D.**

## Our Mission

1. Promote world-class education and research.
2. Contribute and commit to regional development and the resolution of global issues.
3. Nurture students who can assume an important role both globally and locally.

# Mid-term Objectives and Plan

## Akita University Mid-term Objective (Preamble) The University's Basic Objective

Akita University's foundational principle is to develop with the region through the growth of knowledge, on a shared path with the community as a core university of the resource-rich northern Tohoku region. This is the mission we look to fulfill through our research and education.

We are pursuing the development of a flexible research and education organization, collaborating with regional and international institutions to cultivate outstanding talent, taking in ambitious young students, Japanese and foreign alike, and presenting their innovative achievements to the world.

In order to promote members of society who have a broad-minded view of the world, who are well-versed in today's key issues, with their feet firmly on the ground, and who are instilled with a sense of decorum, it is essential to have an education which combines the quality liberal arts with core subjects and specialist fields. Therefore, based on our resolute mission of integrating a range of studies and organizations with key areas of expertise, our four

faculties of International Resource Sciences, Education and Human Studies, Medicine, and Engineering Science, nurture specialist workers to carry on a continuous role in developing the local community, as well as highly-specialized professionals who are active on the international stage, and academic researchers.

Based on these core principles, Akita University's goal is to be a student-centric university, with a dynamic campus-wide fellowship of knowledge amongst students and staff.

Based on the aforementioned principles and guidelines, the fundamental objectives of the university's activities are set out below.

1. In terms of education, to raise our quality to world-class levels, and to nurture talent which can tackle and resolve regional and world issues.
2. In terms of research, to pursue innovation and to present the results locally and globally, undertaking research which leverages our regional



- traits, and which deals with global issues.
3. In terms of our collaboration with society, to give something back to the local community through the results of our research and education, to cooperate with the community in the pursuit and undertaking of measures to promote the region, and to fulfill a central role in medical treatment for the area.
  4. In terms of globalization, to encourage international study and overseas placement for students and teaching staff, focusing on resource producing countries to promote academic exchanges with overseas students and researchers.
  5. In terms of university management, to aim for vigorous, transparent and effective university management, under the President's guidance, instilling the culture of our organization with the mutually enhanced vitality of each one of our students and teaching staff.

## Mid-term Objective

- I. To enhance the quality of the university's current education program and research
- II. To develop and streamline the university's management
- III. To improve the university's financial standing
- IV. To provide transparency regarding the results of self-evaluations as well as the universities programs' current conditions
- V. A mid-term plan with 72 items has been established outlining the measures necessary to achieving the objectives regarding the business management of other miscellaneous topics.

The university's entire "Mid-term Objectives and Midterm Plan" can be viewed online (in Japanese) at the following site:

[http://www.akita-u.ac.jp/honbu/info/in\\_target.html](http://www.akita-u.ac.jp/honbu/info/in_target.html)

# Research Activities Index

## Distinguished Education and Research

- Leading Doctorate Degree Program
  - New Frontier Leader Program for Rare-metal and Resources
- Oncology Professional Training Plan
  - A plan to promote training the next generation of specialists in treating cancer
- Pursuing regional development through the COC+ project, establishing a university which serves as a base for the community and for learning (Promoting the education and establishment of young people in the area).
- Akita University “A Regional and Intellectual Base” Maintenance Project
  - Building a strong community that may cope with the aging society while respecting each individual’s value
- Strategic International Collaborative Research Program
  - Science and Technology Research Partnership for Sustainable Development (SATREPS)

## Social Contributions

### International Exchange

# Distinguished Education and Research

## Leading Doctorate Degree Program: New Frontier Leading Program for Rare-metal and Resources

(Period of implementation: Adopted 2012 -2018)

The Graduate School of International Resource Sciences has established a Specialized Education Course, “New Frontier Leaders on Resources”, environmental conservation and resource literacy. This program fosters the knowledge and skills required for cultural understanding and international relations with the aim to nurturing talented students and graduates who will become “resource new frontier leaders” with the ability to survey and tackle issues regarding international resource development in the 21st century.



Geological survey in the Oga Peninsula

## Akita University “Regional and Intellectual Base” Maintenance Project (COC project)

– Helping build a strong community despite the aging society while respecting each person’s value as an individual –  
(Period of Implementation: Adopted 2013– 2017)

This is the Ministry of Education, Culture, Sports, Science and Technology’s new subsidiary project of 2013. By promoting participation in local businesses and cooperation with residents Akita Prefecture in Yokote, Kita akita, and Katagami, we are creating the “Akita Original Regional Model.” This model gives hope to a region that is harshly feeling the effects caused by the aging population and positions the university to a place of endearment in the regional.



Seminar on integrated nursing practise/result presentation of nursing training (Yokote)

## Pursuing regional development through the COC+ project, establishing a university, which serves as a base for the community and for learning

(Promoting the education and establishment of young people in the area). Implementation period: 2015 (started) - 2019.

We put the COC project into action as a result of the subsidies reform initiatives put forward by the Ministry of Education, Culture, Sports, Science and Technology, to develop the university as a core base for regional reinvigoration. In collaboration with local government and business, we are creating and pioneering highly attractive employment opportunities for our students, focused on developing a community of people whose key objective is regional regeneration. The prefecture’s aim, together with trade and commerce groups and business co-operation agencies, is to increase the employment rate for local students by 10% over 5 years.



“Universities are for wisdom”: Shigeru Ishiba, Minister of State for Regional Development, at the COC+ Kick-Off Symposium ( Akita City: 2/6/2016).

## Oncology Professional Training Plan. A plan to promote the training of the next generation of specialists in treating cancer

(Period of Implementation: Adopted 2012 - 2016)

This is a collaborative project with four universities in Tokyo, including Tokyo Medical and Dental University and Hiroasaki University. Participants in this program work towards combating cancer. The program’s aims are to ① Obtain a variety of minimally invasive cancer treatment methods ② Train comprehensive clinical oncologists ③ Spread and promote community healthcare for cancer treatment ④ Promote clinical cancer research and the practical application of its results ⑤ Train talented students who can be involved in the development of cancer treatment equipment used in hospitals ⑥ Train oncology pharmacists who can contribute to the improvement of cancer therapies involving medication.



An Akita Regional Cancer Care Information Session.

## Strategic International Collaborative Research Program. Science and Technology Research Partnership for Sustainable Development (SATREPS)

Research on the Integration System of Spatial Environment Analyses and Advanced Metal Recovery to Ensure Sustainable Resource Development

(Period of Implementation: Adopted 2014 - 2019)

This program is conducted in Serbia at a copper resource area struggling with environmental pollution. Participants in the program conduct far-reaching environmental assessment including restoration system research development. The aim of this program is to find balance between resource development and the protecting the environment, which is indispensable to sustainable resource development. Research is conducted using advanced remote sensing data and surface data to create a three dimensional environment evaluation and analysis, which is integrated with metal recovery technology.



Undergoing environmental research in Serbia.

# Contributions to Society

In 2004 Akita University became an Incorporated National University. It embraced this opportunity to reaffirm that education, research, and social contributions were the focal points of university management policy. We have been promoting the “open university project” as the hub of public intellect. The root of the university’s social contributions is the belief that one’s education not only takes place as a student, but that it is a lifelong process. Therefore the university should make proactive efforts to provide educational resources to the whole community. This concept acts as the basis for the expansion of various educational activities. Furthermore, we offer opportunities geared towards elementary and junior high school students and their parents.

## Regional Cooperation; Social Contribution initiatives

### ■Open lectures

Every year open lectures are held on a wide variety of topics. These open lectures act as an excellent educational resource for anyone in the community at large who wishes to engage in lifelong learning.



\*For the list of open lectures offered during 2016 please refer to Akita University Official Website.

### ■Children’s Observation Day

Every year during summer vacation “Children’s Observation Day” is held for elementary school students and their parents. The purpose is to raise young students’ interest in the university through campus tours, watching experiments in laboratories, viewing the night sky at the campus observatory, and other fun, educational events.



### ■Cooperating with Communities

Our university makes its education and research resources available to the community at large in order to encourage community vitalization through various partnership agreements with municipalities throughout Akita Prefecture. In an effort to be a “university with its roots in the community,” we undertake activities which make a valuable contribution to the community: public lectures, regional networking events, science sessions for children, and student exchanges with the local community. As of May 1, 2016, we have formed partnership agreements with 15 municipalities in Akita Prefecture.



### ■Elementary and Junior High School Student Tours

The university regularly conducts campus tours as part of its “integrated study” initiatives, and workplace experience for elementary and junior high school students. Teaching staff introduce the university, guiding them inside our facilities and answering questions.

### ■“Medical Science Café Next”

As part of Akita University’s social contributions, we make our educational resources freely available to local citizens. Through interdepartmental collaboration we have invited lecturers from each of our departments: for example, the Head of the Graduate School of Medicine has become a “Science Cafe Master”, talking on medicine and health-related topics from a variety of perspectives.

## Local Disaster Prevention

### 1. Investigation and Research regarding how local disaster prevention should be conducted considering the characteristics of Akita Prefecture

- ① Conduct basic research regarding earthquakes and disaster prevention within Akita Prefecture.
- ② Investigate the extent of the impact of previous *tsunami* that have occurred on Akita prefectural shores, and research ways to minimize *tsunami* damage.
- ③ Investigate and research earthquakes and *tsunami* that may have the potential to inflict enormous damage on Akita Prefecture in the future.



### 2. Giving instruction on disaster prevention

We conduct disaster education for local government, neighborhood associations and educational institutions, so that, in the event of an earthquake, local residents can put disaster mitigation initiatives in place on their own.



### 3. Provide instruction and advice to the prefecture and the cities, towns, and villages within it regarding disaster prevention measures

We provide instruction and advice on disaster prevention and mitigation measures to prefectural municipalities, tailored to take account of Akita Prefecture’s natural characteristics, so they can put in place earthquake disaster prevention measures, as well as predict earthquake damage in the area.

### ■ Resource development and environmental recycling research and development projects

Having begun to produce and consume natural mineral resources and energy resources, including oil and natural gas, we are conducting innovative research into techniques for repairing the environment through actions such as refining, purification, and recycling of rare metals. We are developing a sophisticated base for our research, with an international perspective.



### ■ New materials; functional materials research and development

We undertake research related to discovering new and advanced materials, based on the results of our core research at Akita University. Realizing our capability as one of the leading research institutes in the area, we aim to develop new businesses and new jobs, through the collective efforts of Akita's university, its companies, and its public institutions.

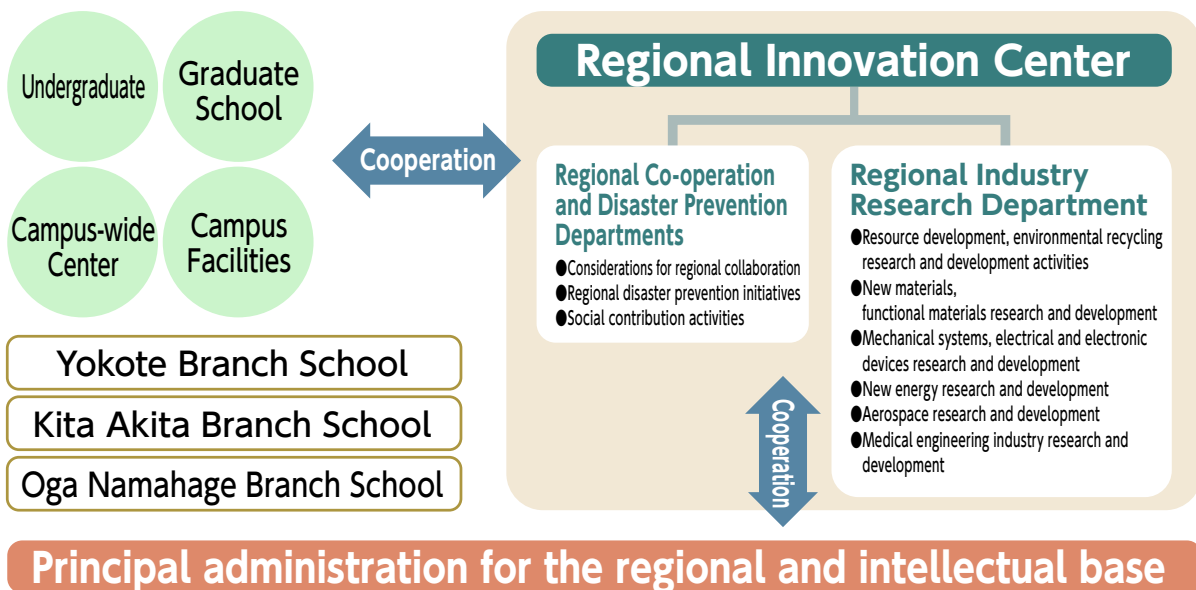


## Regional Innovation Center

In collaboration with the community, we have reorganized and integrated the Center for Regional Development, which contributes to the community's revitalization and development through supporting regional co-operation and regional disaster prevention activities, with our existing organizations, the Venture Business Laboratory and the Venture Business Incubator. These were established to support new business creation and human resource development activities, such as innovative research and development or education for young researchers in the creation of new businesses, along with the promotion of collaborative industry-academic initiatives. We relaunched

the Center for Regional Development in April this year, incorporating both the Regional Co-operation and Disaster Prevention Department and the Regional Business Research Department.

As a university which serves as a base for learning in the pursuit of regional development, we contribute to the promotion and revitalization of local businesses and the development of human resources serving the community, through collaborative research and support initiatives which promote the local economy and prevent disasters in the region, as well as helping the growth of local industry.



# International Exchange

## A worldwide academic network and overseas presence

Our current network of inter-university agreements consists of 57 universities in 29 countries and regions. Our network of inter-departmental agreements consists of 16 departments in 9 different countries and regions. We will continue to be proactive in promoting international exchange through academic partnerships and student exchanges with our partner institutions.

We are actively establishing our presence overseas. In 2012, we established our first overseas office, Akita Mongolia, in partnership with the Mongolian University of Science and Technology. The office serves as the base of study and research for our university researchers located there.

In April 2013 we opened our second overseas office, Akita University - Chulalongkorn University Joint Research Laboratory at Chulalongkorn University in Bangkok, Thailand. An Akita University team which is involved in joint research with Chulalongkorn University is using the laboratory, and it now serves as a base for research and field work for both universities.

In 2014, we established a liaison office with Hokuto Bank, Bangkok. Akita University Bangkok Office is a practical base for our PR activities in South East Asia, allowing us to co-ordinate with institutions in the region, as well as to attract exchange students.

We established this office after concluding a "Strategic Partnership Agreement between Akita University and Hokuto Bank". In 2015, Akita Prefectural Government set up the Akita Prefecture business network for expansion in Thailand. It held a general meeting in Bangkok to establish it. This was also the occasion for the signing of an MOU between The Suranaree University of Technology, Akita University and Hokuto bank.

We have established two research laboratories in Indonesia. In 2015 we opened the "Faculty of International Resource Sciences and Trisakti University Joint Research Laboratory" at Trisakti University, kitted out with all the necessary equipment required for research, such as microscopes and rock cutters. With some test samples received from the state-owned oil company, Pertamina, amongst others, we have put together data on oil resources which are typically very difficult to come by otherwise, increasing our investigative capabilities through this joint effort. This year, we established the Faculty of International Resource Sciences and the

Faculty of Engineering, Hasanuddin University Joint Research Laboratory at Hasanuddin University. It is installed with polarizing microscopes, digital microscope cameras and polishing machines.

By establishing research bases in Indonesia, we hope for increased growth in the study and development of the region, focused on joint research into Asia's underground resources.



Hasanuddin University Joint Research Laboratory

## From establishing research bases for resource development to PR activities for our student exchange programs

Established in 2009 as a university-wide organization, the Faculty of International Resource Sciences research and education Center, the parent body of the Graduate School of International Resource Sciences, provides technological support to resource rich countries, organizes symposia on resource sciences, and sets up bases for research into resource development.

In particular, via our Short Stay Program (SS), we take in undergraduates for a four week period at the university from institutions other than our active exchange partnership institutions. They participate in classroom learning and laboratory work, and visit institutions related to resources in the prefecture.

Recently we have seen an increased number of students who have completed the program and returned home, come back to the university, either as regular overseas students, or else as exchange students. We hope that this program serves as a way of publicizing our activities overseas.

Akita University is planning to expand the international exchange program, in keeping with our role as a university which is open to students all over the world. To that end, given the growth in overseas study and overseas placements for students and teaching staff, as well as the increase in foreign students coming to study from abroad, we are working to establish an environment which is conducive to taking them in. In February 2008, we established the International Exchange Center, an organization established to drive our international exchange strategy.



## Ample Educational and Daily Life Support for Foreign Exchange Students

Along with the increased numbers of foreign students, we are making active efforts to maintain an educational support system for them.

In 2009 we established our own unique scholarship “the Akita University Scholarship for Privately Funded Students.” As a result, we are now able to award scholarships to students with excellent grades from partner schools who wish to study abroad. In order to deepen students’ understanding of Akita culture, various community-rooted events are planned, such as an overnight farmhouse stay, *mochi* (rice cake) making, a visit to Yokote to see the *Kamakura* (igloo), overnight ski trips, and others. By adopting a “tutoring system” Japanese students help exchange students with their Japanese language study and provide support for their daily lives.

In April 2010, the “Multicultural Lounge” was established as a space to independently study a variety of languages, and study abroad orientation and information meetings are regularly held here.

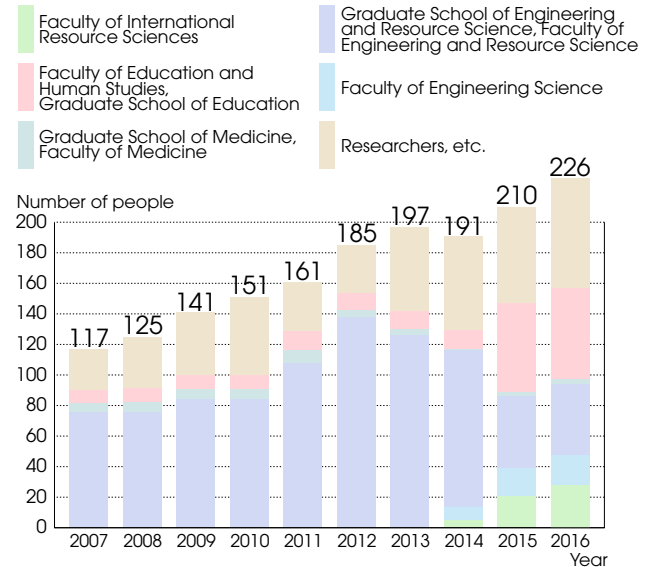


Students experienced rice planting



Multicultural Lounge

## <Transition in International Student Numbers>



## Nurturing Talented Students & Faculty with an International Perspective

Nurturing Talented Students & Faculty with an International Perspective in order to assign young faculty members to posts in foreign universities, and nurture talented professors with an international perspective, we have undertaken the “Akita University Researcher Foreign Assignment Project.” Each year since 2008 approximately 3 professors (25 in total) have used this system to conduct research at universities abroad.

Also, in an effort to provide financial support to university students studying abroad at partner schools we have established the “Akita University Student Overseas Assignment Support Project.” Part of the student’s international airfare is paid for (up to 40,000 yen within Asia, and up to 100,000 for other locations), with support provided to 5 students in 2015.



Study Abroad Orientation (May 23, 2014)

# Undergraduate Faculty and Graduate School

[Undergraduate Faculty]

Faculty of International  
Resource Sciences

Faculty of Education and  
Human Studies

Faculty of Medicine

Faculty of Engineering Science

[Graduate School]

Graduate School of International  
Resource Sciences

Graduate School of Education

Graduate School of Medicine

Graduate School of Engineering Science

# Faculty of International Resource Sciences

The Faculty of International Resource Sciences is the only faculty in Japan where students can study of natural resources with such a strong science and technology approach. The faculty's programs combine earth science and geotechnology with a focus on economic-minerals, petroleum exploration, development, and production. The Faculty also provides studies in the humanities with a focus on the politics and cultures of resource-producing nations. Students will learn from professors who are world-class researchers in their respective fields about natural resources and their importance in our daily life. Graduates will be able to apply their practical and theoretical knowledge at the international level, strengthening the ties between the faculty and other universities, companies, and research institutions both in Japan and abroad.

## Faculty Organization

### Department of International Resource Sciences

Looking toward resolving various issues connected to natural resources on a global scale, with an emphasis on practical abilities and maintaining an international perspective.

#### ● Resource Policy and Management

Students study resource-producing regions' cultures and learn how to communicate with people from diverse cultural backgrounds and different value systems. They deepen their knowledge of economics, policy, and law relating to resource development.

#### ● Earth Resource Science

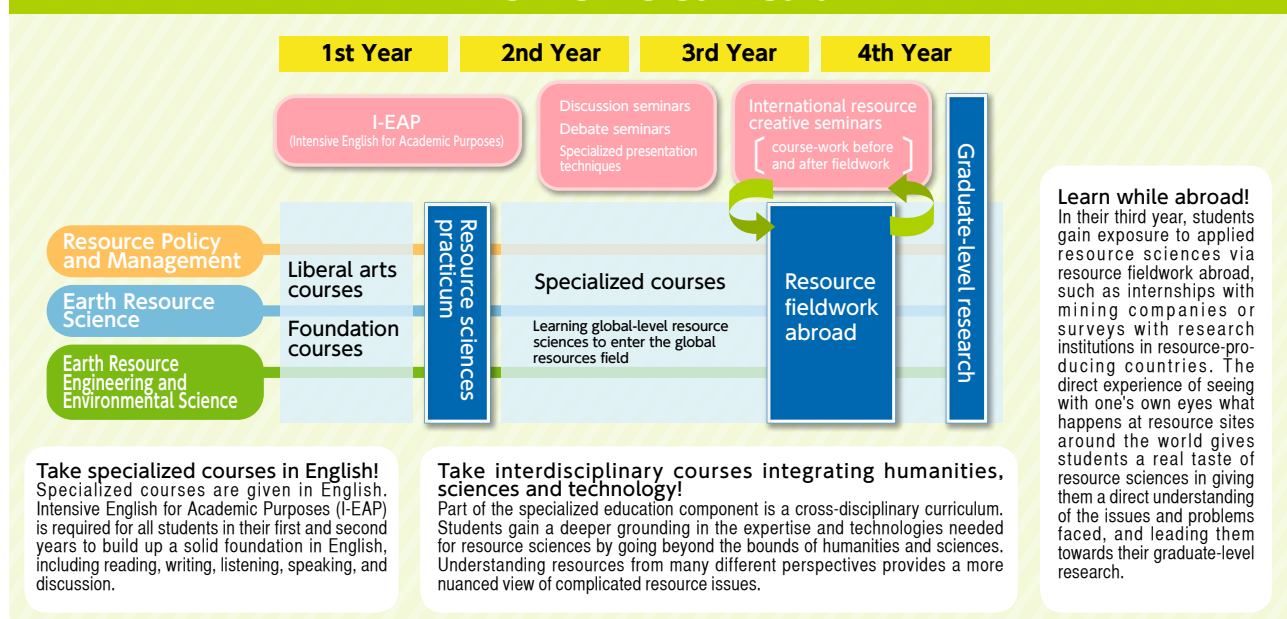
This field of study is focused on the dynamics of earth history. Students study and research the formation and distribution-systems of the earth's underground resources (such as economic-minerals and petroleum) throughout the 4.6 billion years of the earth's history.

#### ● Earth Resource Engineering and Environmental Science

Students are given a comprehensive overview of resource development and the global environment, from resource exploration, development, and production methods, to refining and recycling technologies and environmental conservation.



## Distinctive Curricula



# Faculty of Education and Human Studies

The Faculty of Education and Human Studies Department specializes in one academic course that consists of: the School Curriculum Course which trains students to become educators; and the Regional Culture Department which is the core of various regional collaboration programs. The School Curriculum Course aims to cultivate future educators with practical classroom skills, while working in close cooperation with local schools and maintaining a high level of enthusiasm for education in order to meet the demands of the country's highest standards. In the Regional Culture Department, students learn a variety of subjects including social sciences and humanities, and combined with regional collaborations and on-site fieldwork, students can develop the practical skills required to view regional issues from a local and international perspective.

## Faculty Organization School Education Curriculum

We nurture future educators who can contribute to the vitalization of education in the region.

### ● Compulsory School Teachers

This program trains teachers with the advanced practical skills needed to support top-class academics nationwide, with an emphasis on the elementary and junior high school levels. Students will gain a deeper understanding of childhood development and growth, both mental and physical, and gain competencies for teaching in both elementary schools and junior high schools.

### ● English Language Teachers

In addition to improving students' practical English abilities so that they may become teachers at the elementary and junior high school levels, the program also trains teachers in Cross-Cultural Communication Skills which go beyond just the English language in order to educate Akita's next generation of globally capable people.



### ● Science and Mathematics Teachers

Students in this program expand their systematic knowledge of science and mathematics, and learn how to make these subjects interesting for young students. Part of this program's focus is on training teachers who can develop experiential understanding in their classrooms.

### ● Special-Needs Education Teachers

The program trains teachers to be able to support the development and growth of special needs students in an inclusive environment, as part of special-needs education at mainstream elementary and middle schools or at special-needs schools.

### ● Child Development and Education

The program offers training for teachers and covers nursery school through elementary school, providing a thorough understanding of child development and education at the nursery school, kindergarten, and elementary levels.

## Regional Culture Department

Training talented students who can contribute to regional revitalization.

### ● Regional Studies

This course gives a diversified and comprehensive education in regional studies through the exploration of five areas: Public Policy Area covers subjects such as law and economics; Local Environment Area covers subjects such as sociology and geography; Practical Psychology Area offers the opportunity to train as a certified psychologist; in the Life Science Area students learn about utilizing local food resources in product development, living environments and more; and the Information Communication Area trains students in how to effectively use ICT.

### ● Humanities

In this course, Asian (including Japanese), European and American languages and cultures are studied from a humanities perspective through literature, history, philosophy, art and languages. The foreign language education program (English, German, French, Russian, Chinese, Korean), together with the overseas study program, aims to give students the skills needed to acquire a broad understanding of the international community, while also learning how to apply that knowledge to revitalizing regional culture.



# Faculty of Medicine

We are training talented students who are able to maintain an international perspective and who can contribute to people's health and welfare. We do this by first making sure that our students have a broad educational background rooted in the humanities. Our students are flexible and adaptable allowing them to adjust accordingly to the ever advancing fields of medicine and health-care. Over time our students develop an ability to solve problems, and a firm understanding of medical and health sciences. Other than working as a medical professional in a clinical setting, the door to continue on into graduate school to become a researcher or instructor, or any number of other advanced specialists in the medical field is opened upon graduation.

## Faculty Organization

### Medical Department

Producing future leaders of the medical field, excelling in specialist knowledge and expertise.

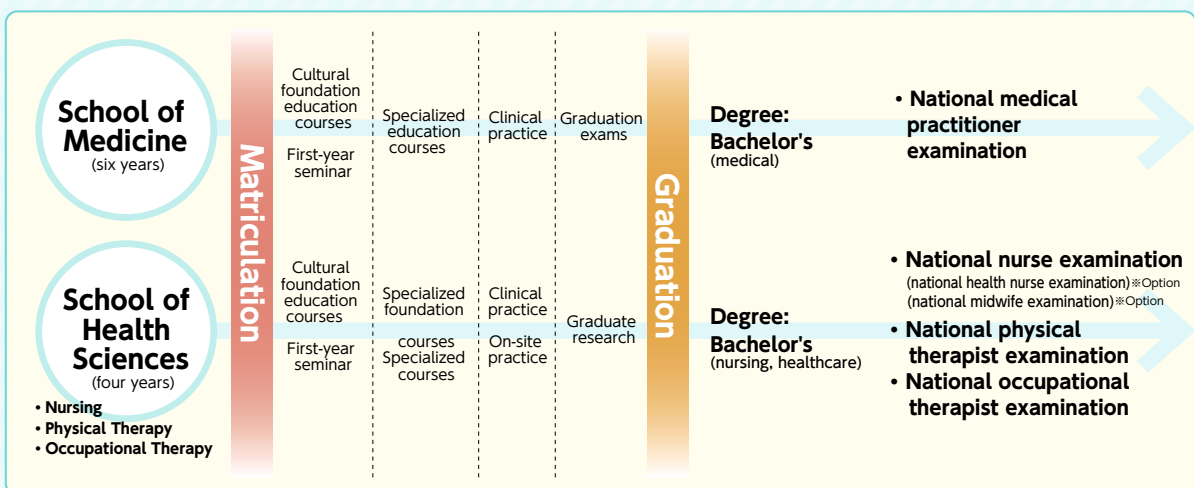
### Health Sciences Department

The Health Sciences Department has 3 majors: nursing, physical therapy, and occupational therapy. There are also 6 courses students may choose from: nursing, public health nurses, midwives, physical therapists, and occupational therapists. These courses are offered in order to train specialists in the medical field.

School of Medicine	The faculty from the graduate school leads instruction.	
School of Health Sciences	Major	Organization of Faculty Instructors
	Nursing	<ul style="list-style-type: none"> <li>● Basic Nursing Course</li> <li>● Clinical Nursing Course</li> <li>● Maternal/Child nursing course</li> <li>● Nursing for Community Living</li> </ul>
	Physical Therapy	<ul style="list-style-type: none"> <li>● Physical Therapy Course</li> </ul>
	Occupational Therapy	<ul style="list-style-type: none"> <li>● Occupational Therapy Course</li> </ul>



## Curriculum for the Faculty of Medicine



# Faculty of Engineering Science

The Faculty of Engineering Science is striving to train talented students and researchers with expertise backed by “reason” and a high-level of ethics. Students in this faculty can look at a range of interdisciplinary fields, making them able to contribute not only to Japan as a whole, but also to the region with confidence. In the first and second years students receive a thorough education in engineering, and in the third and fourth years students take that knowledge and gain a fuller understanding of what it means as they apply it in while taking a more active role in their desired field. During their undergraduate education students can discover questions on their own, gain a broad perspective regarding issues in fields previously unknown to them, and gain the ability to problem solve and be flexible.

## Faculty Organization Department of Life Science

Training researchers and engineers to tackle various problems in the life sciences field.

### ● Life Sciences Course

Students gain a clear understanding of various biological phenomena that make up life from the molecular, cellular, or bodily level, and to the group organism level.

## Department of Materials Science

This department trains researchers and engineers who will deal with cutting-edge, functional materials and chemical processes.

### ● Applied Chemistry Course

Students will study a broad spectrum of specialized chemical fields from chemical engineering that deals with organic and inorganic materials and energy, to bioprocesses.

### ● Material Science and Engineering Course

A wide range of fields are studied starting with the fundamental sciences focusing on solid-state physics, solid-state chemistry, metallic materials, science and engineering, and ceramic materials.



## Department of Mathematical Science and Electrical-Electronic-Computer Engineering

These departments train talented students in multi-faceted approaches in order to become leaders in fields ranging from mathematics and physics to electrical and electronic telecommunications.

### ● Mathematical Science Course

Students study mathematical and computer sciences with a focus on algebra, geometry, mathematical analysis, discrete mathematics, quantum mechanics and electromagnetics.

### ● Electrical and Electronic Engineering Course

Students learn about the fundamental technology that supports electric, electronic, information systems, and communications engineering. Students may focus on electric power engineering, semiconductor device engineering, measurement electronics, and electric mechanical science.

### ● Human-Centered Computing Course

Students will learn advanced applied technology founded in computer science, with a focus on human& computer interaction, welfare communication engineering, image analysis, and information communications and networks.

## Department of Systems Design Engineering

This department trains practical engineers capable of creating new things.

### ● Mechanical Engineering Course

Students study the mechanical engineering process and theories that form the foundation of every industry. The course focuses on material mechanics, fluid dynamics, thermodynamics, machine mechanics, control engineering, nanotechnology, medical engineering, biomechanics, and robotics.

### ● Creative Manufacturing Engineering Course

Students learn about a wide range of engineering disciplines with a focus on design engineering, creative production science, electrical and electronic circuits, system control engineering, rocketry, and a practical research project.

### ● Civil and Environmental Engineering Course

Students learn the technology to create and preserve a safe, secure and comfortable local environment with a focus on structural design studies, construction material science, ground disaster prevention engineering, and environmental hydraulics.

## Distance Learning

Akita University Faculty of Engineering is the only national university that offers “public distance learning courses.” Since the first class was held in 1948, over 1900 graduates have been produced while maintaining the background of educational tradition and history. In order to gain general background knowledge in scientific technology, a general scientific technology course and courses to study the basics and specifics in resources, materials or electrics and electronics are offered.

# Graduate School

## Graduate School of International Resource Sciences

The Graduate School of International Resource Sciences undertakes innovative research and education, with advanced learning and specialization related to Earth Resource Science and Earth Resource Engineering and Environmental Science. It is focused on bringing about "a recycling society". Earth Sciences enable us to acquire a broad range of knowledge on resource development and environmental conservation. Our aim is to nurture talent which can act as world leaders.



<b>Master's degree programs</b>
Earth Resource Science Resource Engineering and Environmental Science
<b>Doctoral degree programs</b>
Resource Sciences
<b>Doctoral Course Leading Program</b> New Frontier Leader Program for Rare Metals and Resources Special Education Course (Five-year Integrated Doctoral Degree Course)
Earth Resource Course Resource Development Materials Course

## Graduate School of Education

The Graduate School of Education covers a range of teaching-related topics through a combination of theory and practice. We aim to train highly capable and enthusiastic elementary and secondary school teachers in the application and development of practical learning, and highly specialized professionals who can contribute to local development through the support they give to teachers and schools. The graduate school has two majors, Teaching Practice (Teaching graduate course) and Psychological Education (Master's course).



<b>Teaching Graduate School (Professional degree)</b>	
Teaching Practice	School Management course Curriculum and Teaching Development course Educational Development, Special Education course
<b>Master's courses</b>	
Psychological Education	Psychological Education course

## Graduate School of Medicine

The Graduate School of Medicine aims to train excellent researchers and highly specialized medical staff who possess an international perspective, and who can promote the most advanced research in medicine, medical, and life sciences, all of which contribute to the development of human health and welfare.



<b>Master's Degree Program</b>		
Medical Science		
<b>Master's Degree Program / Doctorate Degree Program</b>		
Health Sciences	Master's Degree Program	Nursing Science Rehabilitation Science
	Doctorate	Science for Supporting the Development of Women and Children Health and Wellness Development
<b>Doctorate Degree Program</b>		
Medicine	Bioregulatory Medicine, Oncoregulatory Medicine Organ Function-Oriented Medicine, Public Health and Environmental Medicine, Cooperative Division	

## Graduate School of Engineering Science

The Graduate School of Engineering Science. The Graduate School of Engineering Science was established to further regional development in collaboration with local industry and local government. It nurtures highly specialized engineers and researchers, global talent with local roots, challengers with an international perspective who can develop local industry in their own right, and talent which undertakes future innovation for international society.



<b>Master's degree programs</b>	
Life Science	Life Science course
Materials Science	Applied Chemistry course Materials Science and Engineering course
Mathematical Science and Electrical-Electronic-Computer Engineering	Mathematical Science course Electrical and Electronic Engineering course Human-Centered Computing course
Systems Design Engineering	Mechanical Engineering course Creative Engineering course Civil and Environmental Engineering course
Co-operative Major in Life Cycle Design Engineering	
<b>Doctor's degree programs</b>	
Integrated Engineering Science	Field of Life Science Field of Materials Science Field of Mathematical Science and Electrical-Electronic-Computer Engineering Systems Field of Design Engineering

# University Facilities

## University Library

## University Hospital

## Mining Museum

## Affiliated Schools and Facilities for Education and Research

- Kindergarten ○Elementary School ○Junior High school ○Special Support School
- Center for Educational Research and Practice ○Mining Museum
- University Hospital ○University Hospital Medical Simulation Center
- Center for Aging in Place
- Research Center for Development of Disaster Prevention
- Innovation Center for Engineering Design and Manufacturing
- Research Center for Engineering Science

## Campus-wide Joint Use Facilities

- Research Center for Biosignal ○Information Integration Center ○Bioscience Education and Research Center
- Radioisotope Research Center ○Environmental Research Center ○Cooperative Research Center
- International Center for Research and Education on Mineral and Energy Resources ○Regional Innovation Center

## Centers

- Center for Evaluation ○Center for Promotion of Educational Research and Affairs ○Student Support Center
- Center for Teaching License Extension ○International Exchange Center

## Engineering Organization

- General Technology Section

## Welfare Facilities

- Health Center ○University Hall (Clair) (Tegara Campus) ○Hondo Hall (Medikoko) (Hondo Campus)
- Student Dormitories ○International House ○International Student House

## Athletic Facilities

- Athletic Track and field ○Baseball field ○Sports field ○Handball court ○Large multi-use gymnasium
- Small multi-use gymnasium ○Martial Arts training halls ○Archery range ○Tennis court ○25m Swimming Pool
- Exercise ground

## Tokyo Satellite Office

## Yokote Branch School/Kita Akita Branch School/Oga Namahage Branch School

## Information Center

# University Library



Central Library (main entrance)

● The two University Libraries (the Central Library on Tegata Campus and the Medical Library on Hondo Campus), provide books, magazines, audio-visual materials, electronic information, and other study materials for student use, while systematically managing and maintaining the collection.

● Number of books in the collection Central Library: 430,000 books  
Medical Library: 112,000 books

## 〈Opening Hours〉

Category	During each semester	During Long-term Breaks
Weekdays	8:30am – 10:00pm	8:30am – 5:00pm
Sat, Sun, Holidays	12:00pm – 6:00pm	Closed

● The University Library offers study, educational and research support to students and faculty members. The “Commons Group Study Room” has been newly established and is a space where students can engage in active approaches to learning. Also, as a library open to the community, the general public can also use the library to browse and borrow materials.

## 〈Services〉

- Browsing
- Lending/Reserving
- Photocopying
- Reference
- Library Catalog
- Various databases
- Use of PCs, electronic board, and other equipment



Central Library browsing floor



Special collection. The entire works of Shakespeare published in the 18th century is housed here.



Central Library lounge



Central Library "Commons"



Medical Library "Commons"

## ● For more detailed information

〈Central Library〉

TEL.018-889-2279 E-mail: libriyo@jimu.akita-u.ac.jp

〈Medical Library〉

TEL.018-884-6052 E-mail: ibun@jimu.akita-u.ac.jp

## 〈University Library Homepage〉

<http://www.lib.akita-u.ac.jp/>

# University Hospital



University Hospital (Front entrance)

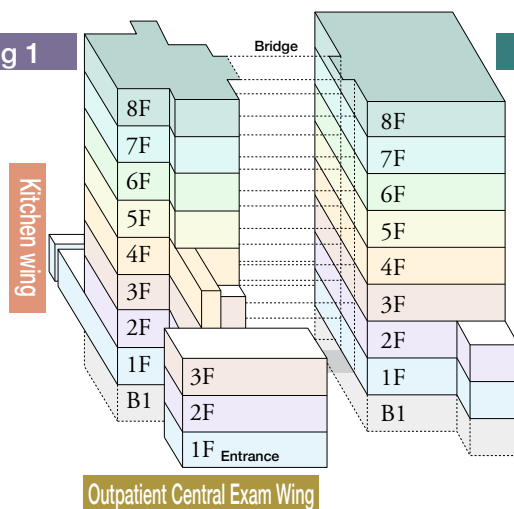
The University Hospital is not only an educational and research facility, but it is also the core health care facility in the community. The hospital makes full use of its medical capabilities through an abundance of knowledge that covers each medical discipline and the most up to-date medical equipment. In 1994 it was designated as a Specific Function Hospital, and as a hospital that takes on a leadership role in the community, we shall continue to strive to further our efforts to contribute to society. Furthermore, while we are actively trying to fulfill our role in training excellent medical staff and furthering medical research through providing adequate, high-quality, advanced medical care in an medical environment where patients can feel secure, we are also taking on a role central to community healthcare and healthcare related activities. We also strive to further our contributions globally.

## <Hospital Guide>

### Wing 1

### Wing 2

As of MAY 1, 2016



Wing 1	
8F	Orthopedics Neurology
7F	Ophthalmology Respiratory surgery Mammary gland/Endocrinology
6F	Gastroenterology Anesthesiology Esophageal surgery
5F	Pediatrics Pediatric surgery Neonatal Intensive Care Unit (NICU) Growing Care Unit (GCU)
4F	Neurosurgery Dermatology Clinical Research Promotion and Support Center Himawari Classroom Keyaki Classroom
3F	Intensive Care Unit (ICU) Central Surgery
2F	Division of Infection Control and Prevention Division of Blood Transfusion
1F	Diagnostic Radiology Department Radiotherapy Department Dental and Oral surgery Barber
B1	Medical Information Department Department of General Medical Practice and Laboratory Diagnostic Medicine Radiotherapy Center Central Materials Department SPD Center

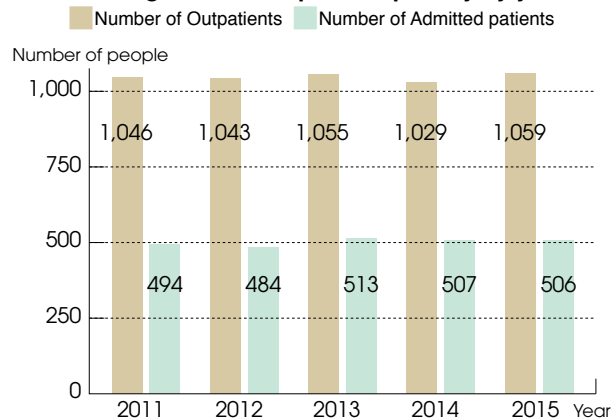
Outpatient Central Exam Wing	
8F	
7F	
6F	
5F	
4F	
3F	
2F	Dermatology Psychiatry Diagnostic Pathology, Department of Pathology Center for Cancer Registry and Information Services Division of Medical Security and Patient Safety Division of Nursing Gastroenterological Surgery Esophageal Surgery Gastroenterology (Hepatobiliary and Pancreatic) Gastroenterology (Stomach and Esophagus) Hematology Nephrology Rheumatology Urology Otorhinolaryngology Dentistry and Oral Surgery Clinical Oncology Division of Cancer Chemotherapy Neurosurgery Anesthesiology Kampō Medicine Outpatient Department Pediatrics Pediatric Surgery Central Laboratory Division Department of Pharmacy Palliative Care Center
1F	General Clinical Division Palliative Care Center Nursing Care for Cancer Outpatients Cardiovascular Medicine Respiratory Medicine Cardiovascular Surgery Respiratory Surgery Breast and Endocrine Surgery Obstetrics Gynecology Ophthalmology Orthopedic Surgery Neurology Psychosomatic Division Diabetes and Endocrinology Geriatric Medicine Rehabilitation Medicine Diagnostic Radiology Radiation Oncology Central Radiology Center for Community Healthcare Patient Support Center for Cancer Patient Support Reception Cashier Admissions Medical Affairs Division Medical Service Office Kiosk Coffee Shop ATM Guardroom Disaster Control Center Library
B1	

Wing 2	
8F	Hematology Nephrology Rheumatology
7F	Respiratory medicine ENT
6F	Gastroenterology (Hepatobiliary and Pancreatic) Gastroenterology (Stomach and Esophagus) Clinical Oncology
5F	Obstetrics and Gynecology Perinatal Maternal and Child Center
4F	Cardiovascular Internal medicine Cardiovascular surgery
3F	Psychiatry
2F	Urology Diabetes/Endocrinology Geriatric medicine
1F	Emergency department Emergency section Emergency Outpatient Endoscopy and Ultrasound Center
B1	Clinical Engineering Center

〈Number of Patients (Admitted and Outpatient) by Department〉 FY2015

Department	Admitted		Outpatient	
	Total number	Average number of patients per day	Total number	Average number of patients per day
Gastroenterology	13,322	36	20,248	83
Neurology	2,807	8	4,882	20
Cardiovascular Internal medicine	9,755	27	16,638	68
Respiratory medicine	5,744	16	6,620	27
Hematology	12,192	33	6,221	26
Nephrology	1,537	4	2,291	9
Rheumatology	1,193	3	7,016	29
Diabetes and Endocrinology	3,696	10	15,956	66
Geriatrics	0	0	0	0
Gastroenterological surgery	9,342	26	5,372	22
Respiratory surgery	4,489	12	1,980	8
Esophageal surgery	6,726	18	1,924	8
Mammary gland/Endocrinology	1,676	5	5,042	21
Cardiovascular surgery	10,157	28	2,567	11
Neurosurgery	10,223	28	7,453	31
Pediatric surgery	1,286	4	1,647	7
Pediatrics	9,299	25	8,336	34
Obstetrics	5,519	15	5,301	22
Gynecology	4,794	13	14,899	61
Psychiatry	10,836	30	18,669	77
Orthopedics	13,026	36	14,960	62
Dermatology	5,661	16	19,367	80
Urology	12,016	33	14,426	59
Ophthalmology	8,895	24	17,237	71
ENT	11,141	31	15,280	63
Diagnostic Radiology	115	0	1,118	5
Radiotherapy	2,269	6	3,633	15
Anesthesiology	0	0	1,046	4
Rehabilitation	0	0	0	0
Oncology	2,520	7	1,839	8
Emergency	247	1	2,795	12
Division of Clinical Pathology	0	0	0	0
Dental and Oral surgery	4,118	11	12,480	51
Total	184,601	506	257,243	1,059

〈Average number of patients per day by year〉



〈Central Examination Facilities〉

- Central Testing department ● Central Surgery department
- Central Radiology department ● Central Materials department
- Intensive Care Unit ● Emergency department
- Transfusion department ● Rehabilitation department
- Medical Information department ● Blood Purification Therapy department
- Central Medical History department ● Perinatal Maternal and Child Center
- Pathology department ● Comprehensive Exam department
- Clinical Research Promotion and Support Center ● Clinical Engineering Center
- Transplant Testing Center ● Center for Medical Education and Training
- Career Support Center for Doctors ● Endoscopy/Ultrasound Center
- Genetic Medicine department ● Oncology Information Center
- Center for Community Healthcare Patient Support, Center for Cancer Patient Support
- Chemotherapy department ● Palliative Care Center
- Psychosomatic Center ● Nutrition Management department
- Hepatic Disease Consultation Center ● Medical Doctor Support Center
- Center for Kidney Disease and Transplantation ● Medical Safety Management department
- Infection Control unit ● Pharmaceutical department
- Nursing department



Helipad and Multistory parking lot

# Mining Museum



## 〈Admission〉

- Opening Hours/9:00a.m. – 4:00p.m.
- Closed/Year end and New Year's (December 26 – January 5)
- Admission fee/ <Adults> 100 yen  
<High school students and younger> Free

## 〈2016 Events at the Mining Museum〉

### ● Junior Science School

<Date> End of July (2 days)

<Participants> 6 graders in elementary school

### ● University Library and Mining Museum exhibition

Rediscovery of Mines through Digital Graphics

<Date> open April 22nd to June 20th

<Place> Mining Museum



First floor exhibition  
Apophyllite (India, Jalgon)



Explanation from a science volunteer



Museum shop



FY2015 Junior Science School  
Mineral Watch! What are these sparkling stones?  
Made up of collected minerals and original samples



Central Hall

# Affiliated School and Facilities for Education and Research

As of May 1, 2016



〈Faculty of Education and Human Studies〉

## ● Affiliated School Grounds

Category	Total Capacity	Number of Classes	Number of Actual Students						Total	
			Grade1	Grade2	Grade3	Grade4	Grade5	Grade6		
Kindergarten	2-year childcare	12	4	—		—		〈5year-old〉 12	12	
	3-year childcare	84		〈3year-old〉 32	〈4year-old〉 31	〈5year-old〉 18	81			
Elementary School		627	18	95	93	95	87	90	89	549
Junior High School		480	12	153	142	147	—		442	
Special Support School	Elementary School Department	18	3	6		5		7		18
	Junior High School Department	18	3	6	6	7	—		19	
	High School Department	24	3	8	10	10	—		28	



〈Faculty of Education and Human Studies〉

## ● University Center for Educational Research and Practice

### 【Facility Purpose】

Promote comprehensive research regarding practical education in learning environments and clinical pedagogy, etc.

### 【Research Sections】

School Education Research Section, Teacher Development Research Section, Clinical Education Research Section, School Liaison Office, Career Support Office for Teachers, Clinical Psychology Consultation Room

〈Graduate School of Medicine〉

## ● Center for Aging in Place

### 【Center's Goals】

Akita has the highest aging population rate in Japan. This center aims to apply the University's educational and research resources and its commitment to regional social contributions to realize a comprehensive community care system (one that allows the patient to receive care in a way and place of their choosing, for as long as required).

### 【Center's Activities】

Provides on-the-job education and training for nurses, care workers, and care managers, and SP volunteer training to strengthen educational foundations (starting FY2016). As part of the University's social contributions to the region, the center holds various lectures including educating helpers for dementia sufferers, and creating a hospital in the home (since FY2015).

〈Graduate School of Engineering and Resource Science〉

## ● Research Center for Development of Disaster Prevention

### 【Facility Purpose】

Promote research that will contribute to the prevention and mitigation of natural disasters and contribute to forming a safe and secure local community through supporting and researching the prevention and mitigation of local disasters

### 【Research Sections】

Earthquake disaster section, Tsunami disaster section, River disaster section, Landslide disaster section, Volcanic disaster section, Information and planning section

〈Graduate School of International Resource Sciences〉

## ● Mining Museum

### 【Facility Purpose】

● Conduct education, research, and investigations regarding the mining industry  
 ● Collect, preserve, and display museum resources related to the mining industry

● Material samples: approximately 20,000  
 ● Total samples: approximately 3,300

〈Faculty of Medicine〉

## ● University Hospital

### 【Facility Purpose】

Conduct medical education and research through providing patients with healthcare

● 33 Medical departments  
 ● 613 Hospital beds



〈Graduate School of Engineering and Resource Science〉

## ● Innovation Center for Engineering Design and Manufacturing

### 【Facility Purpose】

Promote actual manufacturing and hands-on learning and to nurture innovative engineers and contribute to the local community through seminars on manufacturing and scientific technology

### 【Center Activities】

Student-centered projects, Manufacturing classes for children, Manufacturing classes for adults, License lectures, Manufacturing lecture series, Noshiro Space Event, Techno Career Seminar, Manufacturing supply center



〈Faculty of Medicine〉

## ● University Hospital Medical Simulation Center

### 【Facility Purpose】

Established in a joint cooperation by Akita Prefecture and Akita University to further develop the skills of the medical staff in Akita Prefecture with an emphasis on "medical simulation education," which is the new foundation for Akita Prefecture's healthcare.

● 1<sup>st</sup> floor: TV Seminar Room, Medical Image Diagnostic Study Room \*2<sup>nd</sup> floor: First-aid lab, Basic Clinical Techniques lab \*3<sup>rd</sup> floor: Surgery Training room, Surgery Techniques lab, OB/GYN lab, Specialized Clinical Techniques lab



〈Graduate School of Engineering and Resource Science〉

## ● Research Center for Engineering Science

### 【Facility Purpose】

Conduct research based on the integration of science and engineering in the fields of environment, energy, materials, etc. that can be presented globally and contribute to society locally

### 【Areas of Research for Visiting Professors】

Magnetic Materials and Magnetometry; Environmental Inorganic Materials; Process of Functional Thin Film Deposition; High Temperature Physical Chemistry; Biology and Biochemistry; Earth Sciences, Mineralogy and Environment; Water Resources and Environmental Geology; Atomic Force Microscope; Petrology and Isotopic Chemistry; Supra Molecular Chemistry

# University Common Use Facilities



## ● Research Center for Biosignal

### [Purpose of Establishment]

Conduct unique research activities involving the biological information molecules of lipids, proteins, nucleic acids, etc., cooperate organically with similar Japanese and foreign organizations (for example Gunma University) and maintain an environment for an open science and technology dialog with the Japanese people, continuously share the research results obtained at this school with the community and the world.



## ● Information Integration Center

### [Facilities and Equipment]

- Educational PCs (total 378): PC study rooms 1-5, PC study rooms A/B, Hondo PC study room, Group study corner, Scanner corner, Multilingual corner
- Information services: Web mail, Large-size printer, Large-scale computing server (Express5800/A1080a-D), Virtual server hosting(Express/B120b-d)
- Information network : LAN cable (1-4 Gbps to the floor switch), Wireless LAN, Connection network outside the university (1 Gbps)

## ● Cooperative Research Center

### [Purpose of Establishment]

Advance joint research with extra university organizations to develop Akita University's education and research level. Promote to share intellectual property and intellectual property within the community from the research results. Contribute to the technological development and technological development promotion in society.

## ● International Center for Research and Education on Mineral and Energy Resources

### [Purpose of Establishment]

Train advanced resource development professionals with a global perspective, and contribute to the establishment of Japan's resource security and stable resource-supply system. Create an international resource network for further international exchange and global contributions.



## ● Bio-science research and education support center

### [Facilities and Equipment]

- Animal Center: [Small animals section] SPF animal housing rooms (16 rooms), clean animal housing rooms (9 rooms), procedure rooms (4 rooms) [Mid-Large animals sections] SPF animal housing room (1 room), clean animal housing room (1 rooms), Conventional Breeding Lab (4 Labs), procedure rooms (4 rooms), X-ray room, etc. [Special Experiment section] Infectious animal procedure room, chemical hazard procedure room, etc.
- Radioisotope Laboratory: [Management Equipment] comprehensive radiation control system and various survey meters [Procedure Equipment] various centrifuges, 2 GeneAmp PCR Systems [Measurement Equipment] 2 liquid scintillation counters [Modified Genetics Procedure Equipment] rotating incubator, Safety cabinets etc.
- Department of Molecular Medicine: Transmission electron microscope, various spectrophotometers, gene transferring equipment, DNA sequencer, DNA amplification equipment, flow cytometer/cell sorter, confocal laser scanning microscope, high speed liquid chromatography/mass Spectrometry etc.
- Department of Education and Research Liaison



## ● Radioisotope Research Center

### [Facilities and Equipment]

- Unsealed source experiment area: -10°C and 4°C experiment laboratories: 3 fume hoods and 1 biosafety cabinet, liquid scintillation counter, tritium gas measuring and experiment equipment, various scalers, survey meters and plate analyzers
- Sealed source experiment area: Multi-channel ray spectrometer, high-performance liquid chromatograph mass spectroscopy, image analyzer, horizontal x-ray diffractometer

16 types of unsealed sources and 5 types of sealed sources are available for use.



## ● Environmental Research Center

### [Facilities and Equipment]

- Waste Treatment Building: inorganic waste – ferritization processing, organic waste/hazardous solid waste – spray combustion/incineration, mercury, cyanide waste – oxidative decomposition and absorption processing, fluorine-phosphoric acid-based waste – calcification processing, COD waste – Fenton treatment
- Experiment and Analysis Building: Gas chromatograph/ mass spectrometer, gas chromatograph, atomic absorption spectrophotometer, liquid chromatograph, X-ray analysis equipment, other necessary equipment

# for Education and Research



## ● Regional Innovation Center Building No. 1

### [Facilities and Equipment]

(Equipment implemented at the Akita Industry Academia and Government Cooperative Research Center installed in the Center)

Ultrapur water production system, fume hood, microwave sample pretreatment system, ultra-high resolution field emission scanning electron microscope, carbon, hydrogen, nitrogen, sulfur, oxygen fully automated analyzer, flame/furnace high-resolution continuum source atomic absorption spectrometer, elemental analyzer, high-resolution nuclear magnetic resonance spectrometer (600MHz), x-ray photoelectron spectrometer, micro-focus x-ray CT fluoroscopy equipment, mercury porosimeter, ultra-high performance liquid chromatographic system, light scattering GPC molecular weight measurement device, Terahertz spectral measurement device, bipolar power supply, activated sludge treatment equipment, spray dryer equipment, specific surface area and pore size distribution measuring apparatus, catalyst analyzer, real-time PCR system, multi-label counter, rotational viscometer, quadrupole – flight time MS/MS analysis system, gas absorption measuring equipment, modular electrochemical measurement system, confocal laser scanning microscope, matrix-assisted laser desorption ionization flight time mass spectrometer bio-clean bench.

## ● Regional Innovation Center

### [Purpose of Establishment]

As a university which serves as a base for learning in the region, we contribute to the promotion and revitalization of local businesses, developing talent which serves the community, through collaborative research and support initiatives to promote the local economy and prevent disasters in the region, and research which supports local businesses.

## ● Regional Innovation Center Building No. 2

### [Purpose and Establishment]

- New recycling technique and assessment system: Particle size and surface potential analyzer, Ion chromatograph, Measuring microscope, Scanning probe microscope, ICP emission spectrometer, Differential thermal balance, Disk-type manual grinder, Roll-type magnetic separator, Laser date electrometer, ERIEZ nonferrous metal sorter, Vacuum arc melting furnace, etc.
- High-function material planning and assessment systems: Field Emission Scanning Electron Microscope, Multilayer film production device, Multiple alloy film production device, Scanning electron microscope, High vacuum scanning probe microscope, High sensitivity magnetization measurement device, High vacuum heat treatment apparatus, Thin film x-ray diffraction apparatus, Powder x-ray diffraction apparatus, Magnetic storage material analysis and evaluation system

# Center for Education and Research

	Purpose of Establishment
<b>Center for Evaluation</b>	<ul style="list-style-type: none"> <li>● To support self-evaluation, assessment activities, and the effort to improve the student experience at Akita University</li> <li>● To research and develop student/faculty evaluation systems</li> </ul>
<b>Center for Promotion of Educational Research and Affairs</b>	<ul style="list-style-type: none"> <li>● To promote the structure and educational activities of an education system centered on a fundamental core curriculum education</li> <li>● To improve and enhance fundamental core curriculum education and specialized education through investigation, research, and development</li> <li>● Research and development into methods of linking high school and university study or screening applicants</li> </ul>
<b>Student Support Center</b>	<ul style="list-style-type: none"> <li>● To provide student-life support to students through various types of consultation, and financial aid through tuition waivers, scholarship, and award recommendations.</li> <li>● To provide support for extracurricular activities such as the university festival, and to promote the maintenance and improvement of extracurricular activity facilities</li> <li>● To provide career selection guidance and support career search activities by providing career-related information, etc.</li> </ul>
<b>Center for Teaching License Extension</b>	<ul style="list-style-type: none"> <li>● To plan and execute training for educators who need to extend their teaching license</li> <li>● Liaise with Akita boards of education, prefectural universities and education organizations</li> </ul>
<b>International Exchange Center</b>	<ul style="list-style-type: none"> <li>● Planning and advertising activities related to international exchange</li> <li>● To promote international scholarly exchange</li> <li>● To promote international educational exchange</li> </ul>

# Technological Organization

	Purpose of Establishment
<b>General Technology Section</b>	<ul style="list-style-type: none"> <li>● To provide campus-wide technological support for educational research activities</li> <li>● To maintain and develop the expertise of the engineering faculty as a common asset of the university, and to improve those capabilities and qualities and to ensure excellent tech support.</li> </ul>

# Welfare Facilities

Facility	Major information			
<b>Health Center</b>	Student consultation room, relaxation room, examination room, treatment room, x-ray room, auditory testing room, ECG room, counseling room, testing lab, Director's office, Associate Professors' office, office, equipment room			
<b>University Hall (Clair) (Tegata Campus)</b>	<ul style="list-style-type: none"> <li>● 1st floor/Management office, cafeteria, kitchen, café, food and "bento" corner, amenities corner, part-time job center, Vending machine corner, events hall</li> <li>● 2nd floor/Training rooms (1,2,3), Japanese style rooms (Ajsai, Rindo), meeting room, school store and travel corner</li> </ul>			
<b>Hondo Hall (Medikoko) (Hondo Campus)</b>	<ul style="list-style-type: none"> <li>● 1st floor/Cafeteria, kitchen, kiosk, office, storage</li> <li>● 2nd floor/Training room, consultation room, large meeting room, small meeting room, Japanese style room, supply closet</li> </ul>			
<b>Student Dormitories</b>	Category	Tegata Dorm (women only) (excluding international students)	Hondo Dorm (women only) (excluding international students)	Nishiyachi Dorm (men only) (including international students)
	Total Building Area	746㎡	1,076㎡	3,171㎡
	Number of Rooms	40	31	130
	Maximum Capacity	40	31	130
<b>International House</b>	<ul style="list-style-type: none"> <li>● Rooms/Individual rooms (28 rooms for international students, 5 rooms for international researchers), family rooms (2 rooms for international researchers), couples' rooms (3 rooms for international researchers)</li> <li>● Management related/Management office, maintenance room, storage</li> <li>● Common rooms/ All-purpose hall, meeting room, laundry room</li> </ul>			
<b>International Student House</b>	<ul style="list-style-type: none"> <li>● Rooms/Individual rooms (27 rooms), couple rooms' (3 rooms)</li> <li>● Management related/Office, machine room, storage</li> <li>● Common rooms/Meeting room, Japanese style room, laundry room</li> </ul>			



University Hall (Clair)  
(Tegata Campus)



Nishiyachi Dorm



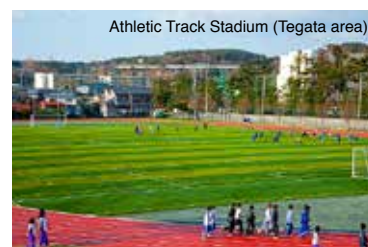
International House



International Student House

# Sports Facilities

Facility	Area (㎡)			Comments
	Tegata area	Hondo area	Hodono area	
<b>Athletic Track Stadium</b>	24,637	} 20,909	—	400m / 6 courses, main/8 courses
<b>Baseball field</b>	20,378		—	—
<b>Sports field</b>	Used jointly with the Athletic Track, artificial turf	Used jointly with the Athletic Track	—	soccer, rugby (Hondo area has soccer, rugby, archery, soft baseball)
<b>Handball court</b>	—	—	—	—
<b>Large gymnasium</b>	2,591	1,079	3,588	basketball, volleyball, badminton, judo, kendo, etc. (Hondo area has volleyball, badminton, basketball, table tennis, futsal)
<b>Small gymnasium</b>	750	—	—	gymnastics, table tennis, karate, etc.
<b>Martial arts gymnasium</b>	—	—	373	judo, kendo
<b>Archery field</b>	149	—	—	—
<b>Tennis courts</b>	(5courts) 3,238	(5courts) 3,614	—	—
<b>Swimming Pool(25m)</b>	800	—	—	7courses
<b>Exercise ground</b>	—	—	14,923	—



Athletic Track Stadium (Tegata area)



Gymnasium (Tegata area)

# Tokyo Satellite Office

The “Akita University Tokyo Satellite” campus acts as a base to: 1. provide information to university hopeful students; 2. promote cooperation among industry, academia, and the government and to conduct activities related to strengthening that cooperation; 3. to act social contribution in the Greater Tokyo area.

## 〈Responsibilities〉

### 1. Provide information to potential students

- Offer the entrance exam orientations, entrance exam information to high schools, visit area schools

### 2. Support cooperative activities among industry leaders, academia, and government

- Act as the consultation window for joint research and science and technology
- Provide academic information, seeds of technology
- Hold academic meetings such as symposiums, conferences and research groups
- Introduce researchers and their research results

### 3. Support social contribution activities

- Hold lectures and seminars

### 4. Support Career Search Activities

- Accept applications for job offers from companies
- Provide students with job information

### 5. Support alumni activities

- Provide alumni with university related information

- **Location** 108-0023 3-3-6 Shibaura, Minato-ku, Tokyo-to
- **Telephone / FAX** 03-5440-9104
- **Homepage** <http://www.akita-u.ac.jp/honbu/satellite/>



Campus Innovation Center

# Yokote Branch School, Kita Akita Branch School, Oga Namahage Branch School

The Yokote city, Kita Akita city and Oga Namahage city branch schools have been established in an effort to disseminate information from Akita University throughout the prefecture and have a closer cooperative relationship with local communities.

## Yokote Branch School

〈Opened August 5, 2009〉

- Programs are implemented in an effort to encourage student participation in community activities (for example, making *iburigakko*, a smoked pickle famous in Akita), and to resolve community issues.
- Cooperative programs with elementary, junior high, and high schools are promoted at this site, such as the “Mini Education Practicum,” for students are hoping to become teachers.

- **Contact**  
013-0036 1-21Ekimae-cho, Yokote-shi  
Yokote City Exchange Center Y2 (Y·Y) Plaza
- **TEL** 0182-38-8304
- **FAX** 0182-32-4056

## Kita Akita Branch School

〈Opened November 17, 2010〉

- We practice traditional farming methods, an integrated process from planting to harvest, without pesticides or chemical fertilizers (“Knowledge from our home town - growing rice for our hearts and minds, and Nature”).
- Offers science classes for elementary and junior high school students.

- **Contact:** 018-3392 19-1 Hanazono-cho, Kita Akita-shi Kita Akita City Hall, General Affairs Department, General Affairs Section, General Affairs Group
- **TEL** 0186-62-1111
- **FAX** 0186-63-2586

## Oga Namahage Branch School

〈Opened September 30, 2013〉

- Making efforts to raise the level of local education through projects that utilize students’ will for self-study and self-learning for children, and organized visits to the Faculty of Medicine.
- Making efforts towards community revitalization through increasing the number of people who visit the area by inviting university cultural and athletic clubs in the Greater Tokyo area to hold overnight camps in the area.

- **Contact**  
010-0595 66-1 Izumidai, Funagawa,  
Funagawaminato, Oga-shi  
Oga city General Affairs Planning Department  
Strategic Planning Section
- **TEL** 0185-24-9126
- **FAX** 0185-23-2424

# Information Center

Here we have our current research and education projects on display, including regular exhibitions on the work of our prominent graduates (for example Tamezo Narita and Keishi Nagi). Also, various events and concerts are organized by students and faculty members.

## 〈Admission Information〉

- Opening Hours/10:30 a.m. – 5:00 p.m.
- Opening Days/Weekdays only (Entrance is free)



Information Center Exterior



Students in the Open Space

## 〈Main Items on Permanent Display〉

### ● Introduction of Graduates



#### Tamezo Narita

A graduate of the Akita Prefecture Normal School (predecessor to the Faculty of Education and Human Studies). He left more than 300 outstanding songs to the world such as "Song of the Beach" and the "Akita Prefectural Song." Surviving records show that he began seriously studying composition while attending the Akita Prefecture Normal School.



#### Keishi Nagi

A member of the second graduating class of the Akita University Faculty of Medicine. He continues to work as a doctor at the Saku General Hospital in Nagano prefecture as well as authors books. His works include *Medical Student*, whose stage is set at the newly established Akita University Faculty of Medicine, and portrays the worries and conflicts of its main characters, 4 young medical students, and *Diamond Dust*, which was the winner of the 100th Akutagawa award.



#### Tokiko Matsuda

Educated at Akita Women's Teacher Training Institute (now Department of Education and Human Studies), Tokiko Matsuda is a well published author and her 1966 novel "Orin Kuden", a series based on the life of her mother and the people of Arakawa mine, received the 8th Tamura Toshiko Award in 1968.



#### Masatatsu Abe

A graduate of the Graduate School of Engineering and Resource Science Department, Masatatsu Abe is a true adventurer, always heading wherever his dreams may lead. Whilst still a student, his adventures included crossing South America on a bicycle and going down the Amazon river on a raft! Currently he is working towards his 1500km solo run across Antarctica.

## 〈Major Projects〉



Lectures from former graduates



Exhibitions organized by students



University Clubs' Exhibitions

# Information

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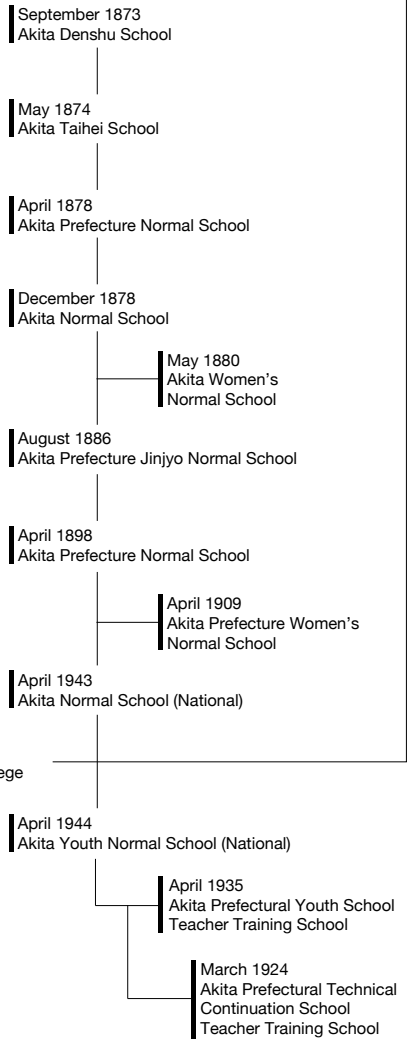
- Historical Sketch
- Academic Organization
- Student Quota, Current Student Data
- New Student Application and Entrant Data
- Graduate Data
- Degree Conferral Data
- International Student Data
- International Researcher Data
- Overseas Partner Universities
- Administrator Data/ Instructor Data
- Budget for FY2016
- Accepted External Funding Status
- Telephone Numbers and Addresses
- Tegata Campus Map
- Hondo Campus Map/Hodono Campus Map
- Access

# Historical Sketch



● **100th Anniversary Hall (Constructed October 2012)**

Built to commemorate the 100th anniversary of the founding of the Faculty of Engineering Resources  
 Its exterior inherits the Akita Mining College building, the predecessor to Akita University



1945	1965	1975	1985	1989	1990	1991	1992	1994	1996	1998	1999	2000	2002	2004	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

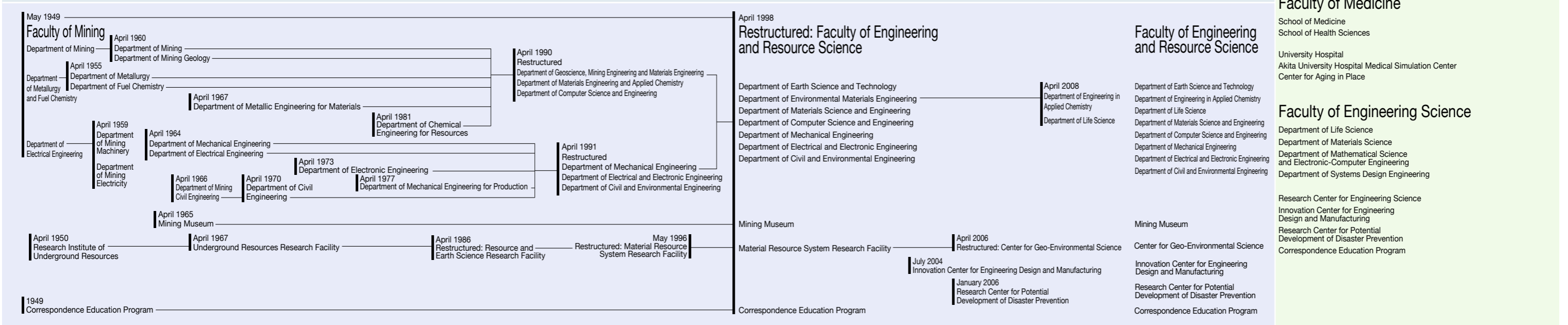
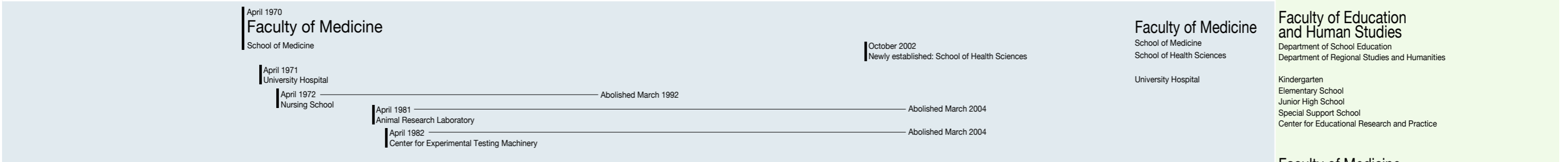
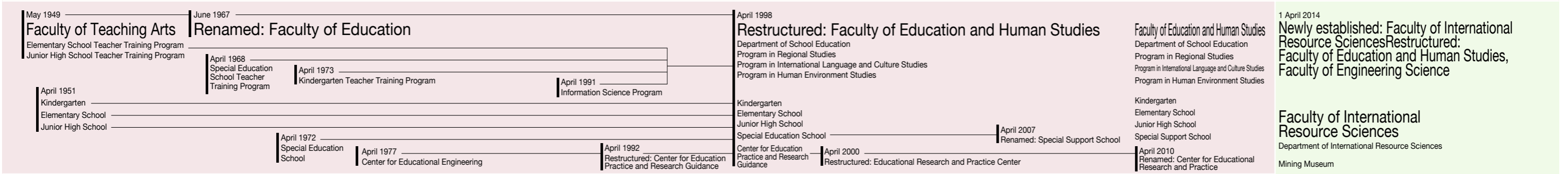
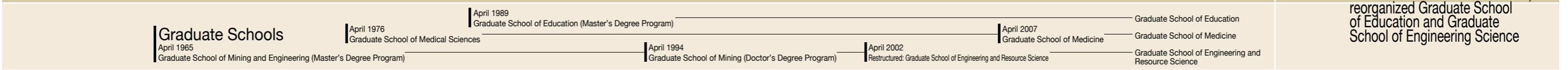
May 1949 Akita University established

1999 50<sup>th</sup> anniversary

April 2004 National University Corporation

2009 60<sup>th</sup> anniversary

April 1st 2016 Newly-founded Graduate School of International Resource Sciences; reorganized Graduate School of Education and Graduate School of Engineering Science



**College of Allied Medical Science**  
(April 1989 – March 2007)

- Department of Physical Therapy, Department of Occupational Therapy (separated and expanded April 1990) [Department of Nursing (October 1989)]

**Non-degree Post-graduate Courses**

- Advanced Course of Mining (April 1954 – March 1965)
- Advanced Course of Education (April 1965 – March 1989)
- Special Advanced Course of Special Education (April 1980 – March 2008)

**University Common Use Facilities for Education and Research**

- Cooperative Research Center (November 2007) [Intellectual Property Headquarters (April 2004) + Regional Cooperative Research Center (January 1989)]
- General Information Processing Center (April 2015) [Information Processing Center (January 1989)]
- Bioscience Education and Research Center (April 2004)
- Radioisotope Research Center (June 1974)
- Environmental Research Center (April 2004)
- International Center for Research and Education on Mineral and Energy Resources (October 2009)
- Center for Regional Development (April 2016)
- Research Center for Biosignal (April 2012)

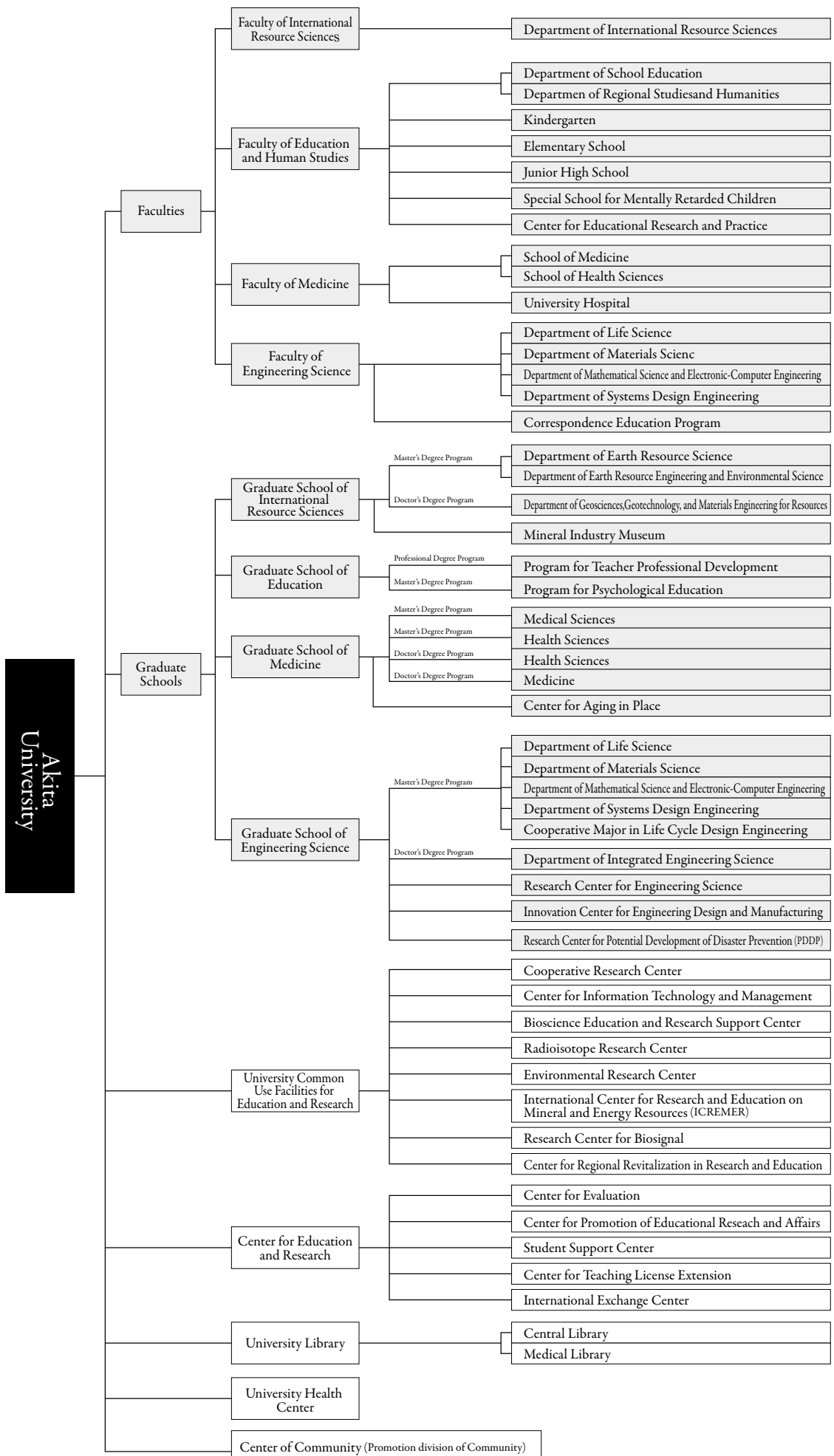
**Centers for Education and Research**

- Center for Evaluation (April 2004)
- Center for Promotion of Educational Research and Affairs (April 2004)
- Center for Teaching License Extension (April 2009)
- Student Support Center (April 2004)
- International Exchange Center (February 2008) [Organization for the Promotion of International Exchange (April 2004)]
- \*Organization for the Promotion of Social Contribution (April 2004 – March 2009)

- University Library (May 1949)
- University Health Center (April 1974)



# Academic Organization



# Student Quota, Current Student Data

## <Faculties>

As of 1 May 2016

Faculty	Department/Program	Max. Enrollment Capacity	Max. Student Capacity	Current Students						Total
				Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Faculty of International Resource Sciences	Department of International Resource Sciences	120	360	131	119	118				368
	Total	120	360	131	119	118				368
Faculty of Education and Human Studies <small>*1: Not accepting new students as of the 2014 school year</small>	Department of Social Education	110	430	117	121	130	101			469
	Department of Regional Studies and Humanities	100	300	104	102	102				308
	Program in Regional Studies		65			4	67			71
	Program in International Language and Culture Studies	※1	65			5	76			81
	Program in Human Environment Studies		60			2	65			67
	Total	210	920	221	223	243	309			996
Faculty of Medicine	School of Medicine	<5>124	755	128	135	122	123	129	130	767
	School of Health Sciences	(14)106	452	114	115	116	108			453
	Total	<5>(14)230	1,207	242	250	238	231	129	130	1,220
Faculty of Engineering Science	Department of Life Science	45	135	48	43	40				131
	Department of Materials Science	110	330	121	106	109				336
	Department of Mathematical Science and Electronic-Computer Engineering	120	360	132	139	119				390
	Department of Systems Design Engineering	120	360	134	131	130				395
	Common Subjects	12	12							
	Total	(12)395	1,197	435	419	398				1,252
Faculty of Engineering and Resource Science <small>*1: Not accepting new students as of the 2008 school year *2: Not accepting new students as of the 2014 school year</small>	Department of Earth Science and Technology	※2	60		2	9	56			67
	Department of Environmental Materials Engineering	※1								
	Department of Applied Chemistry		55	1	0	10	56			67
	Department of Life Science		32		1	3	29			33
	Department of Materials Science & Engineering		60			16	59			75
	Department of Computer Science and Engineering		50		1	3	60			64
	Department of Mechanical Engineering	※2	77		1	14	79			94
	Department of Electrical and Electronic Engineering		75		2	9	84			95
	Department of Civil and Environmental Engineering		51			4	57			61
	Common Subjects		12							
	Total	472	1,472	1	7	68	480			556
	<b>Total</b>	<5>(26)955	4,156	1,030	1,018	1,065	1,020	129	130	4,392

\*Numbers in ( ) represent third-year transfer students and are not included in the tally. \*Numbers in < > represent second-year transfer students and are not included in the tally.

## <Graduate Schools>

As of 1 May 2016

School	Department	Max. Enrollment Capacity	Max. Student Capacity	Current Students			Total
				Year 1	Year 2	Year 3	
Graduate School of International Resource Sciences	Department of Earth Resource Science	17	17	10			10
	Department of Earth Resource Engineering and Environmental Science	23	23	16			16
	Total	40	40	26			26
	Department	Max. Enrollment Capacity	Max. Student Capacity	Doctor's Degree Program			Total
	Department of Geosciences, Geotechnolgy, and Materials Engineering for Resources	10	10	5			5
<b>Total</b>		50	50			31	
Graduate School of Education	Program for Teacher Professional Development	20	20	22			22
	Department	Max. Enrollment Capacity	Max. Student Capacity	Current Students			Total
	Program for Psychological Education	6	6	7			7
	School Education	※1	13		11		11
	Major Subjects Education		31		20		20
	Total	6	50	7	31		38
<b>Total</b>		26	70	29	31	60	
Graduate School of Medicine	Medical Sciences	5	10	2	1		3
	Department	Max. Enrollment Capacity	Max. Student Capacity	Master's Degree Program			Total
	Health Sciences	12	24	12	17		29
	Department	Max. Enrollment Capacity	Max. Student Capacity	Doctor's Degree Program			Total
	Health Sciences	3	9	4	3	6	13
	Department	Max. Enrollment Capacity	Max. Student Capacity	Doctor's Degree Program			Total
	Medicine	30	120	28	20	41	76
<b>Total</b>		50	163			210	
Graduate School of Engineering Science	Department of Life Science	15	15	8			8
	Department of Materials Science	42	42	31			31
	Department of Mathematical Science and Electronic-Computer Engineering	45	45	49			49
	Department of Systems Design Engineering	36	36	35			35
	Cooperative Major in Life Cycle Design Engineering	12	12	12			12
	Total	150	150	135			135
	Department	Max. Enrollment Capacity	Max. Student Capacity	Doctor's Degree Program			Total
	Department of Integrated Engineering Science	10	10	8			8
	<b>Total</b>		160	160			143

# New Student Application and Entrant Data

School	Department	Max. Enrollment Capacity	Max. Student Capacity	現 員			Total		
				Master's Degree Program		Total			
				Year 1	Year 2				
Graduate School of Engineering and Resource Science	Department of Earth Science and Technology	※2	17	3	21	/	24		
	Department of Environmental Materials Engineering	※1					28		
	Department of Applied Chemistry		20		28		15		
	Department of Life Science		12		15		28		
	Department of Materials Science and Engineering		23		28		15		
	Department of Computer Science and Engineering		16		15		26		
	Department of Mechanical Engineering	※2	26	1	25		26		
	Department of Electrical and Electronic Engineering		30	1	25		7		
	Department of Civil and Environmental Engineering		11		7		12		
	Cooperative Major in Life Cycle Design Engineering		12	1	11		181		
	Total		167	6	175				
	Department		Max. Enrollment Capacity	Max. Student Capacity	Doctor's Degree Program			Total	
					Year 1		Year 2	Year 3	
	Department of Geosciences, Geotechnology, and Materials Engineering for Resources		8	6	8		8	9	23
Department of Life Science		6		0	2		2		
Department of Advanced Materials Engineering		6		3	0		3		
Department of Production and Civil Engineering	※2	6	1	1	5		7		
Department of Electrical, Electronic and Computer Systems Engineering		6	2	1	6		9		
Total		32	9	13	22		44		
Total		199					225		
Grand Total		286	642				669		

\*1: Not accepting new students as of the 2012 school year  
\*2: Not accepting new students as of the 2016 school year

## <Faculties>

2016 school year

Section	Max. Enrollment Capacity	Applicants			Entrants			Ratio
		Male	Female	Total	Male	Female	Total	
Faculty of International Resource Sciences	120	336	132	468	86	35	121	3.90
Faculty of Education and Human Studies	210	406	621	1027	84	135	219	4.89
Faculty of Medicine	230	505	615	1120	103	130	233	4.87
Faculty of Engineering Science	395	1185	281	1466	325	78	403	3.71

\*Does not include international exchange students (except for the Faculty of International Resource Sciences). Also does not include transfer students.

## <Graduate Schools>

2016 school year

Section	Max. Enrollment Capacity	Applicants			Entrants			Ratio	
		Male	Female	Total	Male	Female	Total		
Graduate School of International Resource Sciences (Master's Degree Program)	40	28	4	32	23	3	26	0.80	
Graduate School of International Resource Sciences (Doctor's Degree Program)	10	3	2	5	3	2	5	0.50	
Graduate School of Education (Professional Degree Program)	20	14	8	22	14	8	22	1.10	
Graduate School of Education (Master's Degree Program)	6	4	11	15	2	5	7	2.50	
Graduate School of Medicine	Master's Degree Program	Medical Sciences	5	0	2	2	0	2	0.40
	Master's Degree Program	Health Sciences	12	8	11	19	6	12	1.58
	Doctor's Degree Program	Health Sciences	3	3	2	5	1	3	1.67
	Doctor's Degree Program	Medicine	30	21	7	28	21	7	28
Graduate School of Engineering Science (Master's Degree Program)	150	141	14	155	124	11	135	1.03	
Graduate School of Engineering Science (Doctor's Degree Program)	10	7	2	9	7	1	8	0.90	

\*Does not include Japanese government scholarship foreign exchange students or specially selected foreign exchange students.

(However, includes Japanese government scholarship foreign exchange students and specially selected foreign exchange students at the Graduate School of International Resource Sciences.)

# Undergraduate and Graduate School Graduate Data

## <Faculties, Graduate Schools, and Post-graduate Non-degree Courses>

Faculties			Graduate Schools			Post-graduate Non-degree Courses	
Section	2015 School Year	Total	Section	2015 School Year	Total	Section	Total
Faculty of Education and Human Studies	302	4,455	Graduate School of Education	31	856	Advanced Course of Education	78
Faculty of Education		14,519				Special Advanced Course of Special Education	212
Faculty of Medicine	237	5,083	Graduate School of Medicine (Master's Degree Program)	3	60	Advanced Course of Mining	58
			Graduate School of Medicine (Master's Degree Program)	11	69		
			Graduate School of Medicine (Doctor's Degree Program)	3	17		
			Graduate School of Medicine (Doctor's Degree Program)	23	125		
			Graduate School of Medicine		791		
Faculty of Engineering and Resource Science	480	6,960	Graduate School of Engineering and Resource Science (Master's Degree Program)	162	1,849		
			Graduate School of Engineering and Resource Science (Doctor's Degree Program)	8	115		
Faculty of Mining		14,522	Graduate School of Mining (Master's Degree Program)		1,270		
			Graduate School of Mining (Master's Degree Program)		1,012		
			Graduate School of Mining (Doctor's Degree Program)		123		
<b>Total</b>	<b>1,019</b>	<b>45,539</b>	<b>Total</b>	<b>241</b>	<b>6,287</b>	<b>Total</b>	<b>348</b>

\*Advanced Course of Mining abolished March 1965 \*Advanced Course of Education abolished March 1989 \*Graduate School of Mining (Master's Degree Program) abolished March 1997 \*Faculty of Education restructured/renamed to Faculty of Education and Human Studies in April 1998 \*Faculty of Mining restructured/renamed to Faculty of Engineering and Resource Science in April 1998 \*Graduate School of Mining restructured/renamed to Graduate School of Engineering and Resource Science in April 2002 \*Special Advanced Course of Special Education abolished March 2008 \*Graduate School of Medicinal Science restructured/renamed Graduate School of Medicine in April 2007

## <College of Allied Medical Science>

Section	Department of Nursing	Department of Physical Therapy	Department of Occupational Therapy
<b>Total</b>	<b>1,015</b>	<b>246</b>	<b>254</b>

\*College of Allied Medical Science abolished March 2007

# Degree Conferal Data

As of 1 May 2016

Section		2011	2012	2013	2014	2015	Total
Graduate School of Education	Master's Degree (Education)	24	29	34	24	31	856
	Master's Degree (Medical Sciences)	4	4	0	0	3	23
Graduate School of Medicine	Master's Degree (Nursing)	5	5	6	6	4	51
	Master's Degree (Rehabilitation)	7	5	7	8	7	55
	Doctor's Degree (Health Sciences) (Course)	3	4	3	4	3	17
	Doctor's Degree (Medicine) (Course)	19	23	24	25	23	127
	Doctor's Degree (Medicine) (Thesis)	2	1	4	3	4	27
	<b>Total</b>	<b>40</b>	<b>42</b>	<b>44</b>	<b>46</b>	<b>44</b>	<b>300</b>
Graduate School of Medicinal Science	Doctor's Degree (Medicine) (Course)	6	4	3			806
	Doctor's Degree (Medicine) (Thesis)	0	0	0			574
	<b>Total</b>	<b>6</b>	<b>4</b>	<b>3</b>			<b>1,380</b>
Graduate School of Engineering and Resource Science	Master's Degree (Engineering)	168	159	134	101	145	1,784
	Master's Degree (Resource Science)	0	4	3	6	6	33
	Master's Degree (Science)			8	13	11	32
	Doctor's Degree (Engineering) (Course)	11	10	10	8	7	111
	Doctor's Degree (Resource Science) (Course)	1	0	0	1	0	3
	Doctor's Degree (Science) (Course)					1	1
	Doctor's Degree (Engineering) (Thesis)	0	0	2	0	1	11
	Doctor's Degree (Resource Science) (Thesis)	0	0	0	0	0	1
	Doctor's Degree (Science) (Thesis)					0	0
<b>Total</b>	<b>180</b>	<b>173</b>	<b>157</b>	<b>129</b>	<b>171</b>	<b>1,976</b>	
Graduate School of Mining	Master's Degree (Engineering)						2,252
	Master's Degree (Resource Science)						30
	Doctor's Degree (Engineering) (Course)						117
	Doctor's Degree (Resource Science) (Course)						6
	Doctor's Degree (Engineering) (Thesis)						31
<b>Total</b>						<b>2,436</b>	
<b>Grand Total</b>	<b>250</b>	<b>248</b>	<b>238</b>	<b>199</b>	<b>246</b>	<b>6,948</b>	

International Student Data

Country	Faculty														Subtotal		Graduate School														Subtotal		Total				Total									
	Faculty of International Resource Sciences				Faculty of Education and Human Studies				Faculty of Medicine		Faculty of Engineering and Resource Science		Faculty of Engineering Science		Subtotal		Graduate School of International Resource Sciences				Graduate School of Education		Graduate School of Medicine		Graduate School of Engineering Science		Graduate School of Engineering and Resource Science		Subtotal		Regular		Non-Regular													
	Regular		Non-Regular		Regular		Non-Regular		Regular		Non-Regular		Regular		Non-Regular		Regular		Non-Regular		Regular		Non-Regular		Regular		Non-Regular		Regular		Non-Regular		Regular		Non-Regular											
	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private	Gov't Sponsored	Private														
China	51	1			6	1	27	24	1			7	2			8	1	23	6	1	27	24	13	2					1	1	1	11	11	34	35	1	28	29	64							
Malaysia	33	6	3							13	3			14	2			33	6				2										35	35			35									
Vietnam	22	4	2		1	1			1	1			6	1	1			21	8	1	1	6				4	3		1	1	1	5	5	26	27	1	1	28								
South Korea	15				2	1	12	4										2	1	1	12	4											2	2	1	1	12	13	15							
Mongolia	14	7	3	1			3	3							1	1		7	6	7	5	7	1	2					4	1	1	6	6	13	14	7	7	21								
UAE	2	2																2																2	2			2								
Zambia	1		1																															1	1	1	1	2	3							
Indonesia	0																	12	1	3											3	5	4	8	4	8	12		12							
Botswana	0																	3	1	1												1	1	2	2	1	3		3							
Afghanistan	0																																1	1	1	1	1		1							
India	0																																1	1	1	1	1		1							
Egypt	0																																	1	1	1	1		1							
Romania	1				1	1													1	1															1	1	1	1	1							
Australia	1						1																														1	1	1	1						
Kenya	0																																		2	2			2							
Tanzania	0																																		2	2			2							
Malawi	0																																	3	3	3	3		3							
Ukraine	1				1	1																														1	1	1	1							
Thailand	0																																	2	2	2	2		2							
Philippines	0																																		2	2	3	3	4	4						
Papua New Guinea	0																																		1	1	1	1	1	2						
Iran	0																																		2	2	2	2		2						
Taiwan	3				2	1													1	2																1	1	2	3							
Pakistan	1		1																																	2	2	2	2	3						
Serbia	0																																		1	1	1	1		1						
Mozambique	0																																			1	1		1	1						
Kazakhstan	1		1																																		1	1	1	1						
Honduras	0																																			1	1	1	1	1						
Madagascar	0																																			1	1	1	1	1						
Myanmar	1				1	1																														1	1	1	1	1						
計	147	0	20	0	6	9	45	5	32	0	3	0	0	26	0	0	0	89	29	5	53	71	4	13	1	0	0	0	1	0	0	1	0	15	28	20	47	3	1	20	136	156	8	54	62	218

\*Numbers in ( ) represent female student numbers. \*\*Gov't Sponsored\* refers to Japanese government (Monbukagakusho) scholarships, and includes university recommendations, embassy recommendations, and domestic selections.  
 \*\*Non-regular\* refers to Japanese studies students, educational research students, special audit students/special research students (exchange students), credited auditors, and researchers.  
 \*\*Private\* includes foreign government scholarship students (UAE and Malaysia).

International Researcher Data

<Foreign Researchers> Actual 2015 school year admissions

Section Name	Country/Region	Number
Graduate School of Engineering and Resource Science	China	3
	India	1
	Vietnam	1

<Part-Time Researchers> Actual 2015 school year admissions

Section Name	Country/Region	Number
Graduate School of Engineering and Resource Science	India	2
	Ghana	1
	China	1
	Mongolia	1
Venture Business Laboratory	China	4
	India	3
	Mongolia	1

<Foreign Visiting Researchers>

Actual 2015 school year admissions

Section Name	Country/Region	Number
Faculty of International Resource Sciences	Indonesia	4
	Turkey	1
Graduate School of Medicine	Belarus	2
Graduate School of Engineering and Resource Science	New Zealand	1

**[Inter-University Agreements]**

(57 universities in 29 countries/regions)

As of 1 May 2016

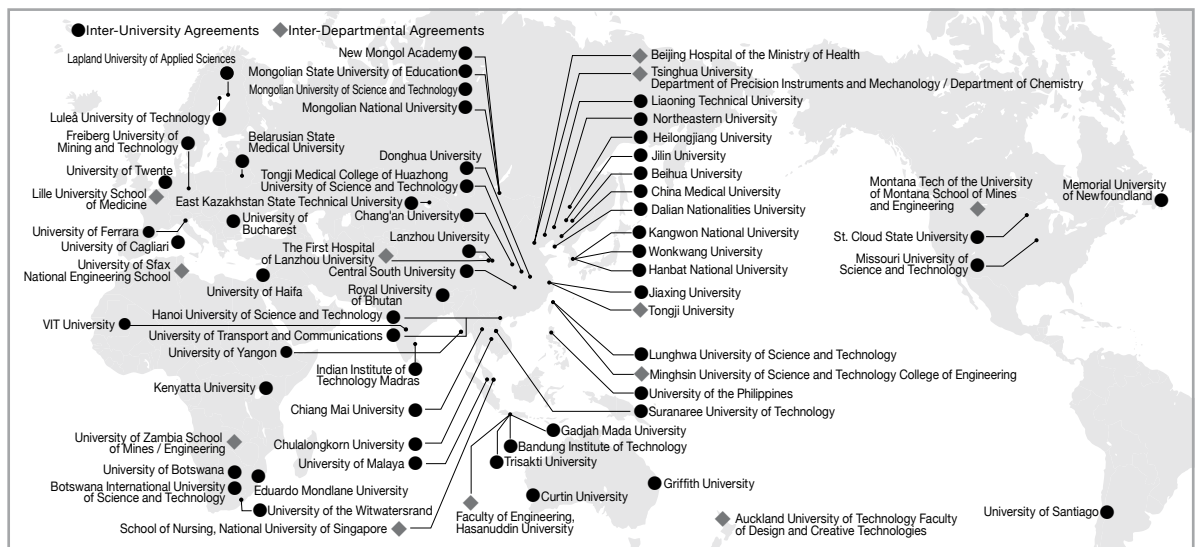
Country/Region	University	Affiliate Since		
Asia	India	Indian Institute of Technology Madras 21 March 2014 VIT University 12 June 2015		
	Indonesia	Technology, Institut Teknologi Bandung 12 July 2012 Trisakti University 10 June 2014 Gadjah Mada University 8 June 2015		
		South Korea	Hanbat National University 8 June 2001 Wonkwang University 12 October 2007 Kangwon National University 24 March 2008	
			Thailand	Chulalongkorn University 28 November 2012 Suranaree University of Technology 17 August 2015
	Chiang Mai University 10 December 2015			
	Taiwan	Lunghwa University of Science and Technology 15 July 2005		
	China	Heilongjiang University 19 October 1988 China Medical University 6 October 1989 Central South University 24 August 2004 Liaoning Technical University 20 April 2005 Dalian Nationalities University 27 June 2005 Lanzhou University 1 August 2005 Jilin University 6 February 2007 Northeastern University 9 August 2007 Donghua University 3 December 2009 Tongji Medical College Huazhong University of Science and Technology 24 March 2010 Chang'an University 18 November 2010 Beihua University 20 November 2012 Jiaxing University 12 November 2014		
		University of the Philippines Diliman 24 September 2012 University of the Philippines Manila 4 February 2013		
		Philippines	Royal University of Bhutan 14 June 2012	
		Bhutan	Hanoi University of Science and Technology 2 December 2008	
		Vietnam	University of Transport and Communications 3 December 2008	
		Malaysia	University of Malaya 20 November 2013	
		Myanmar	University of Yangon 19 September 2014	
		Mongolia	Mongolian University of Science and Technology 22 October 2009 Mongolian State University of Education 23 July 2010 Mongolian National University 19 June 2013 New Mongol Academy 25 January 2016	
			Middle East	University of Haifa 24 September 2010
			Israel	Kenya
		Africa	Botswana	Botswana International University of Science and Technology 23 October 2009 University of Botswana 31 March 2011
			Mozambique	Eduardo Mondlane University 12 January 2014
			South Africa	University of the Witwatersrand 1 September 2014
		Oceania	Australia	Griffith University 29 June 1994 Curtin University 1 August 2013
			North America	U.S.A.
	Canada	Memorial University of Newfoundland 17 June 2013		
	Central/South America	Chile	University of Santiago 21 November 2013	
	Europe (including NIS countries)	Italy	University of Cagliari 9 December 2009 University of Ferrara 30 June 2014	
		Netherlands	University of Twente 23 October 2007	
		Kazakhstan	East Kazakhstan State Technical University 8 June 2011	
		Sweden	Luleå University of Technology 9 May 2013	
		Germany	Freiberg University of Mining and Technology 4 July 2012	
		Finland	Lapland University of Applied Sciences 23 October 2009	
		Belarus	Belarusian State Medical University 26 July 2004	
		Romania	University of Bucharest 28 September 2010	

**[Inter-Departmental Agreements]**

(16 Faculties, etc. in 9 countries/regions)

As of 1 May 2016

Akita University Department	Region/Country	University/Department	Affiliate Since	
Faculty of International Resource Sciences	Asia	Indonesia	Faculty of Engineering, Hasanuddin University 23 April 2014	
		China	Beijing Hospital of the Ministry of Health 14 November 1985	
Graduate School of Medicine	Asia	Singapore	School of Nursing, National University of Singapore 7 March 2016	
		Europe (including NIS countries)	France	Lille University School of Medicine 13 April 2011
Akita University Hospital	Asia	China	The First Hospital of Lanzhou University 12 June 2014	
Graduate School of Engineering and Resource Science	Taiwan	Minghsin University of Science and Technology College of Engineering 12 April 2010		
		Asia	China	Tsinghua University Department of Precision Instruments and Mechanology 1 March 2007 Tongji University Department of Chemistry 17 January 2008 Tongji University School of Materials Science and Engineering 24 May 2010
			Africa	Zambia
	Tunisia			University of Sfax National Engineering School 18 December 2003
	Oceania	New Zealand	Auckland University of Technology Faculty of Design and Creative Technologies 27 November 2012 (Memorandum exchanged)	
	North America	U.S.A.	Montana Tech of the University of Montana School of Mines and Engineering 24 June 1982	
	Venture Business Laboratory	Asia	China	Shanghai Key Lab of D&A for Metal Functional Materials, Tongji University 2 September 2011



# Administrator Data

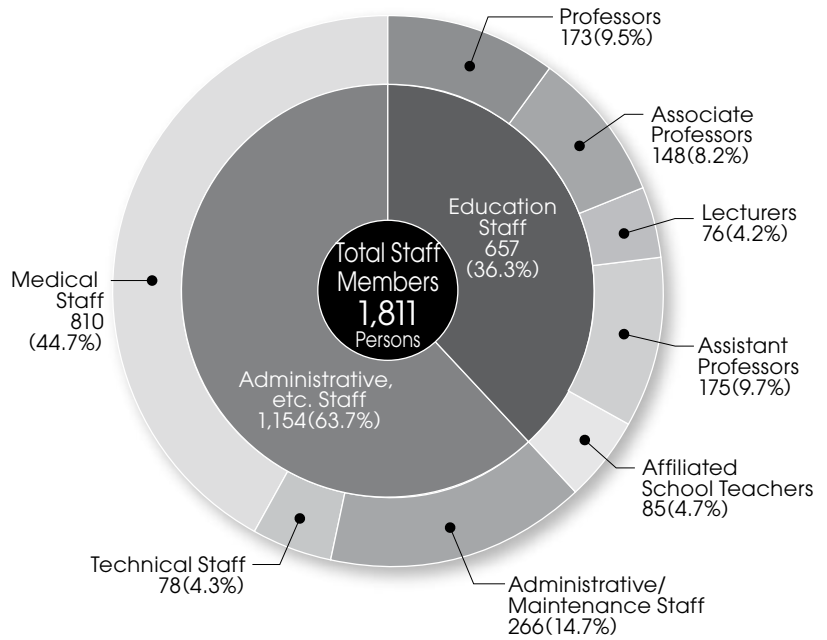
As of 1 May 2016

Category	University President	Director	Temporary	Total
University President	1			1
Director		5 (1)		5 (1)
Temporary			2 (1)	2 (1)
<b>Total</b>	<b>1</b>	<b>5 (1)</b>	<b>2 (1)</b>	<b>8 (2)</b>

\*Numbers in ( ) represent part-time administrators as a portion of the total number.

# Instructor Data

As of 1 May 2016



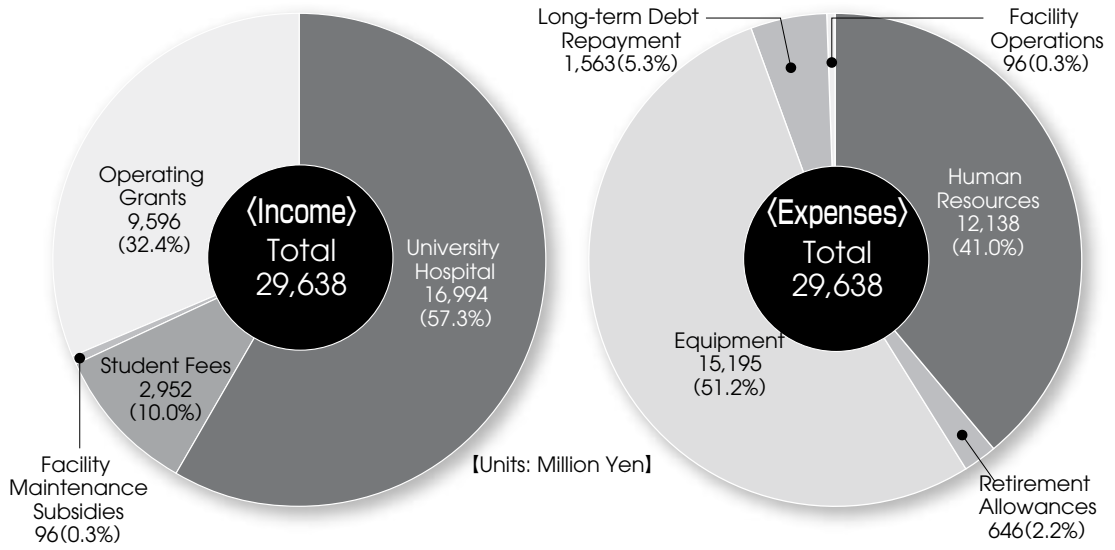
\*Teaching staff includes specially appointed teachers, excludes charitable lecturers

## All Staff by Position and Gender

As of 1 May 2016

Sex	Professors		Associate Professors		Lecturers		Assistant Professors		Affiliated School Teachers		Administrative/Maintenance Staff		Technical Staff		Medical Staff	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Male	156	90.2	130	87.8	61	80.3	120	68.6	41	48.2	162	60.9	61	78.2	146	18.0
Female	17	9.8	18	12.2	15	19.7	55	31.4	44	51.8	104	39.1	17	21.8	664	82.0
<b>Total</b>	173		148		76		175		85		266		78		810	

# Budget for FY2016



\*The values in the graph are projected amounts for FY2016, and Income and Expenses totals do not include joint industry-university research fees or donation-related costs.

# Accepted External Funding Status

Units: JPY 1000

Category	FY2008		FY2009		FY2010		FY2011		FY2012		FY2013		FY2014		FY2015	
	Donations	Amount	Donations	Amount	Donations	Amount	Donations	Amount	Donations	Amount	Donations	Amount	Donations	Amount	Donations	Amount
Collaborative Research with Private Sector, etc.	59	77,934	59	58,659	56	75,131	62	59,464	71	64,480	78	77,127	72	73,014	77	83,786
Contracted Research	73	276,786	86	312,251	84	371,986	110	273,757	131	344,289	123	279,478	92	382,050	113	530,846
Scholarship Donations	830	485,359	794	515,847	801	643,222	769	816,153	705	423,299	738	457,548	702	433,377	739	422,972
Charitable Lectures/Departments	2	38,300	3	75,800	5	216,800	6	222,600	6	226,800	6	204,000	4	162,000	4	156,000
<b>Total</b>	<b>964</b>	<b>878,379</b>	<b>942</b>	<b>962,557</b>	<b>946</b>	<b>1,307,139</b>	<b>947</b>	<b>1,371,974</b>	<b>913</b>	<b>1,058,868</b>	<b>945</b>	<b>1,018,153</b>	<b>870</b>	<b>1,050,441</b>	<b>933</b>	<b>1,193,604</b>

\*Contracted Research does not include investigational drug trials, pathological exams, or contracted trials. Scholarship donations do not include Akita University Education Research Support Fund or Future Development Fund.

# Telephone Numbers and Addresses

## <Tegata Campus>

Name	Telephone Number	Address
General Affairs Front Desk(General Information)	018-889-2207	1-1 Tegata Gakuen-machi, Akita City 010-8502 Japan
Center for Evaluation	018-889-2937	
University Library - Central Library	018-889-2273	
University Health Center	018-889-2286	
Cooperative Research Center	018-889-2712	
Information Integration Center	018-889-2499	
Center for Regional Development	018-889-3007	
Center for Regional Development Building No. 1	018-889-2608	
Center for Regional Development Building No. 2	018-889-3040	
International Center for Research and Education on Mineral and Energy Resources	018-889-2810	
Radioisotope Research Center	018-889-3006	
International Exchange Center	018-889-2856	
Center for Promotion of Educational Research and Affairs	018-889-3191	
Center for Teaching License Extension	018-889-3205	
Student Support Center	018-889-2265	
Office for the Promotion of Gender Equality	018-889-2260	
Information Center	018-889-2931	
Faculty of International Resource Sciences - Front Desk	018-889-2214	
Faculty of International Resource Sciences - Mining Museum	018-889-2461	
Faculty of Education and Human Studies - Front Desk	018-889-2509	
Faculty of Education and Human Studies - Center for Educational Research and Practice	018-889-2700	
Faculty of Engineering Science - Front Desk	018-889-2305	
Faculty of Engineering Science - Research Center for Engineering Science	018-889-2460	
Faculty of Engineering Science - Innovation Center for Engineering Design and Manufacturing	018-889-2806	
Faculty of Engineering Science - Research Center for Development of Disaster Prevention	018-889-2305	



Tegata Campus

## <Hondo Campus>

Name	Telephone Number	Address
Faculty of Medicine (General Information)	018-833-1166	1-1-1 Hondo, Akita City 010-8543 Japan
Faculty of Medicine - University Hospital (General Information)	018-834-1111	
Faculty of Medicine - University Hospital Medical Simulation Center	018-884-6427	
Bioscience Education and Research Support Center Department of Molecular Medicine	018-884-6191	
Bioscience Education and Research Support Center Animal Center	018-884-6193	
Bioscience Education and Research Support Center Radioisotope Laboratory	018-884-6196	
Research Center for Biosignal	018-884-6467	
Environmental Research Center	018-884-6192	
University Library - Medical Library	018-884-6052	



Hondo Campus

## <Hodono Campus>

Name	Telephone Number	Address
Faculty of Education and Human Studies Kindergarten	018-862-2343	14-32 Hodonoharano-machi, Akita City 010-0904 Japan
Faculty of Education and Human Studies Elementary School	018-862-2593	13-1 Hodonoharano-machi, Akita City 010-0904 Japan
Faculty of Education and Human Studies Junior High School	018-862-3350	7-75 Hodonoharano-machi, Akita City 010-0904 Japan
Faculty of Education and Human Studies Special Support School	018-862-8583	

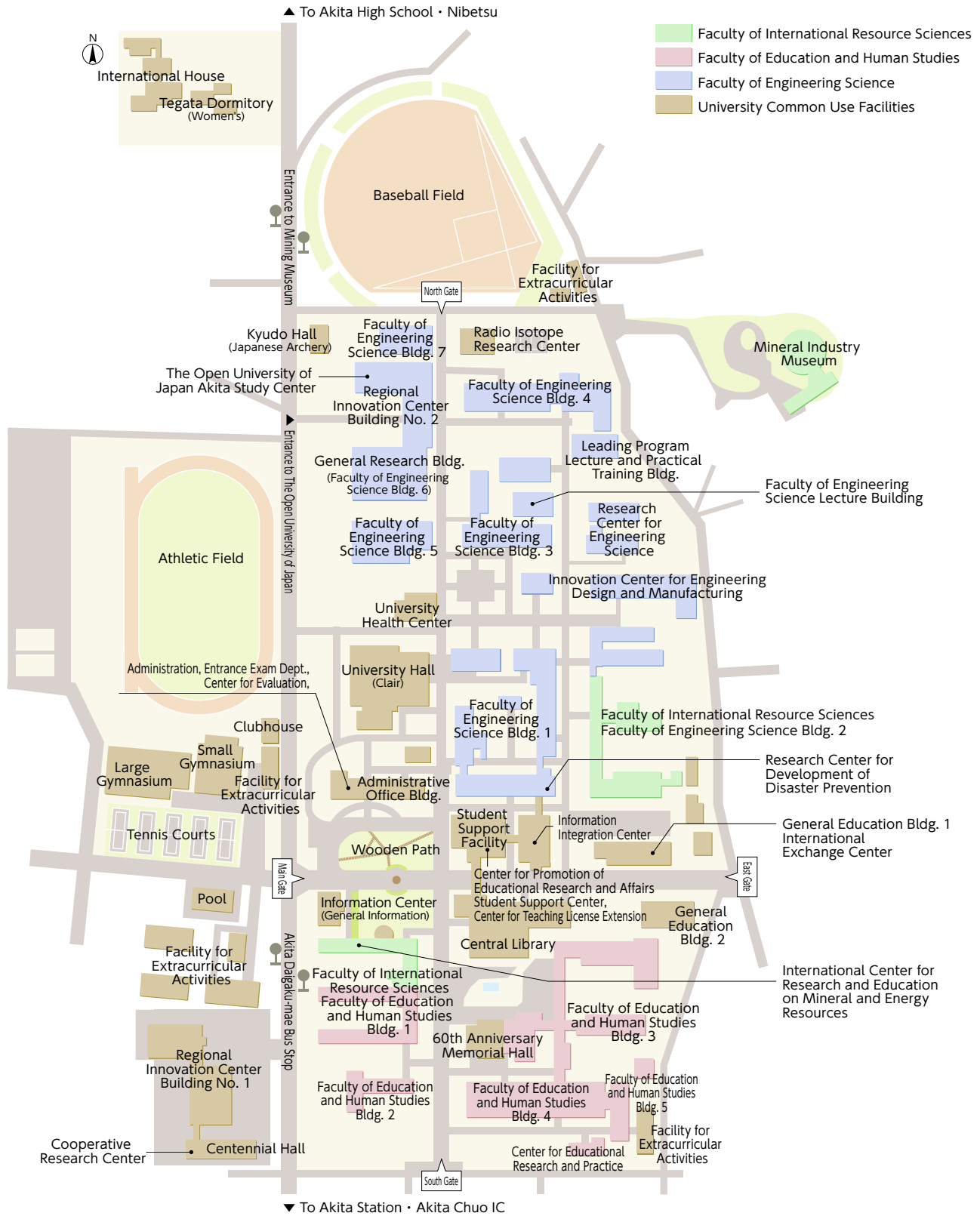


Hodono Campus

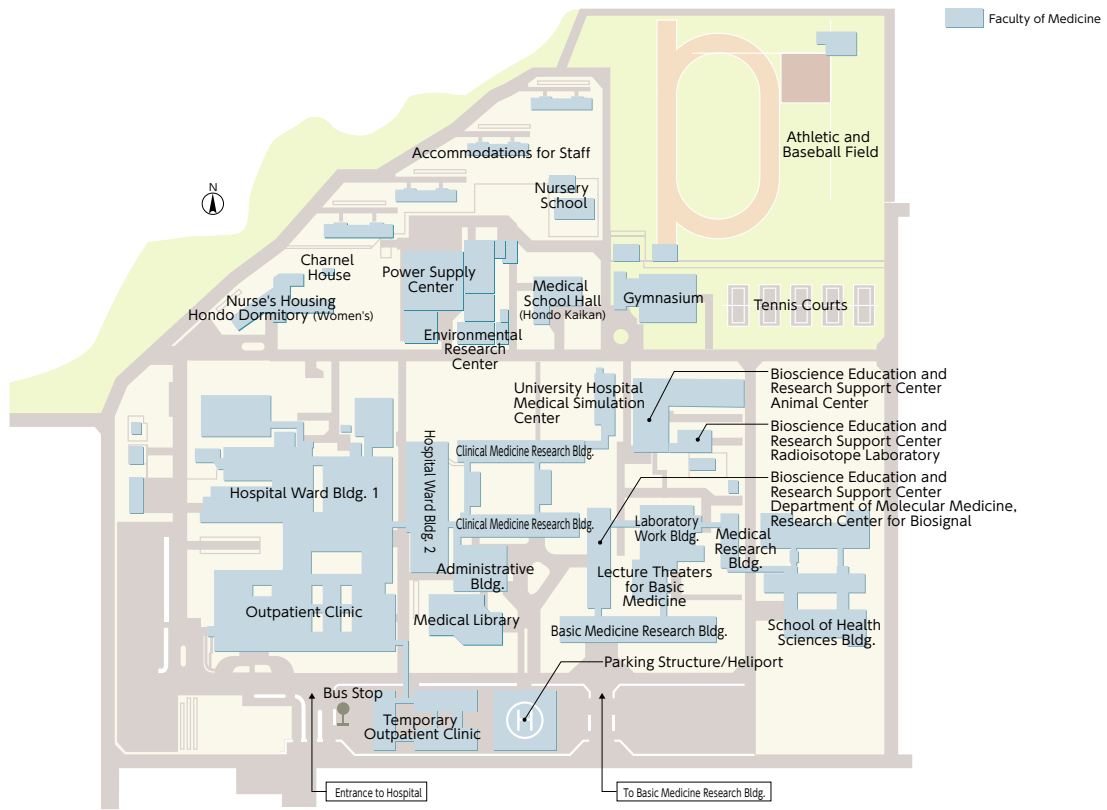
## <Other Facilities>

Name	Telephone Number	Address
Nishiyachi Dormitory (Men's)	018-833-2856	5-1 Tegata Nishiyachi, Akita City 010-0851 Japan
Tegata Dormitory (Women's)	-	5-50 Tegata Tanaka, Akita City 010-0862 Japan
Hondo Dormitory (Women's)	-	100-3 Nukazuka Yanagida, Akita City 010-0825 Japan
International House	-	5-50 Tegata Tanaka, Akita City 010-0862 Japan
International Student House	-	4 Takada Hiroomote, Akita City 010-0041 Japan
Yokote Branch School	0182-38-8304	1-21 Ekimae-cho, Yokote City 013-0036 Japan
Kitaakita Branch School	0186-62-1111	19-1 Hanazono-cho, Kitaakita City 018-3392 Japan
Oga Namahage Branch School	0185-24-9126	66-1 Izumidai Funagawaminato Funagawa, Oga City 010-0595 Japan
Tokyo Satellite Campus	03-5440-9104	3-3-6 Shibaura, Minato-ku, Tokyo 108-0023 Japan Tokyo Institute of Technology Campus Innovation Center Rm. 606
The Open University of Japan Akita Study Center	018-831-1997	1-1 Tegata Gakuen-machi, Akita City 010-8502 Japan

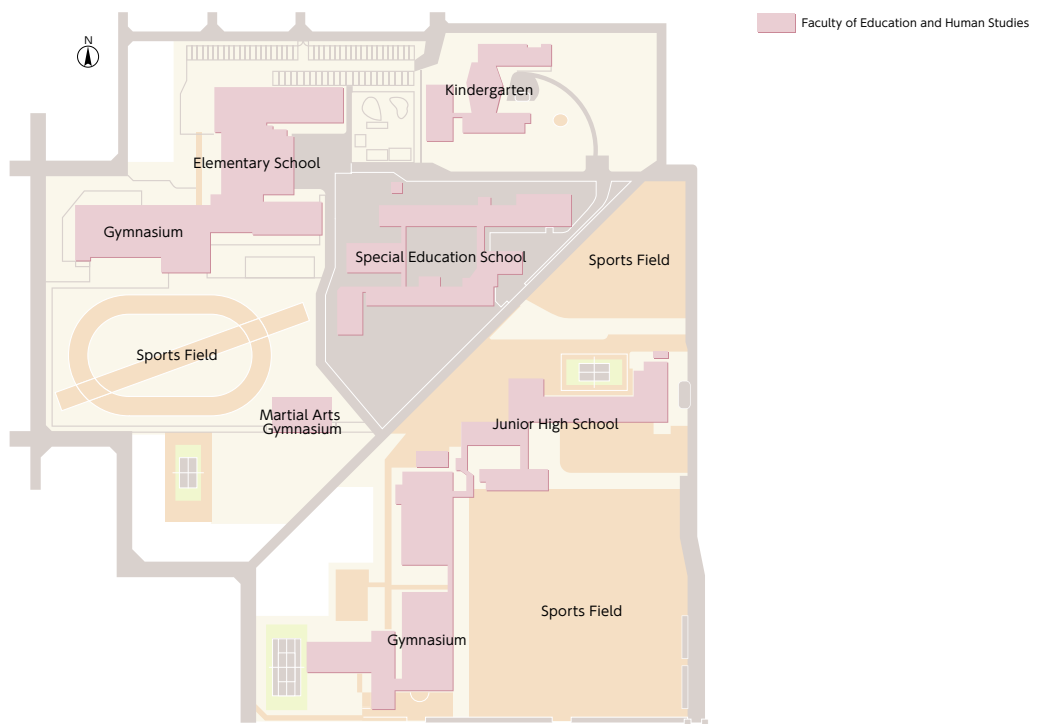
# Tegata Campus Map



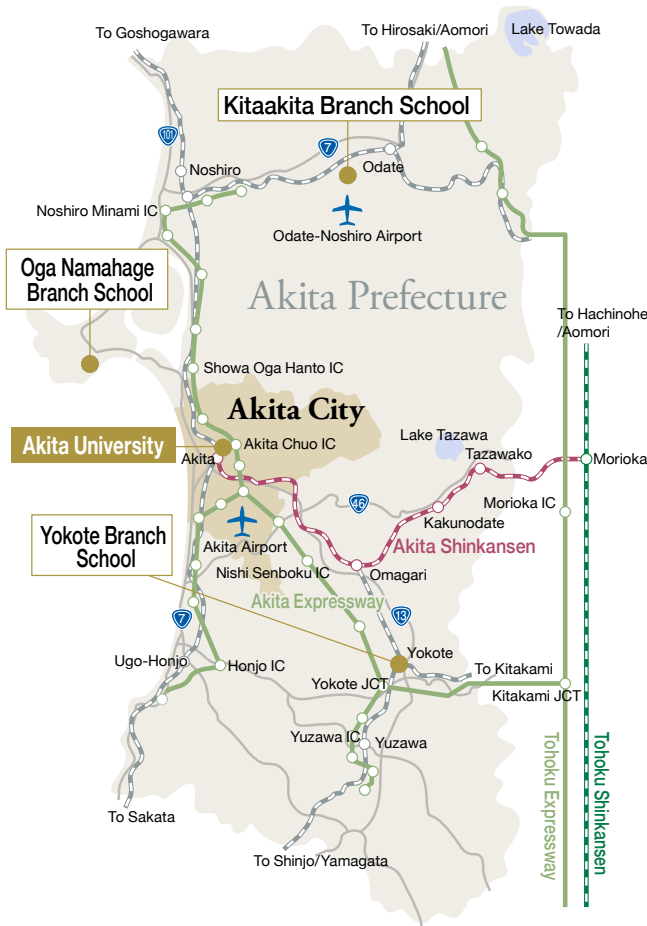
# Hondo Campus Map



# Hodono Campus Map



# Access



## <To Akita>

As of April 2016

From Tokyo	Haneda Airport to Akita Airport (1 hr. 5 min.)
	Haneda Airport to Akita Airport (1 hr. 5 min.)
From Nagoya	Chubu International Airport to Akita Airport (Approx. 1 hr. 20 min.)
From Osaka	Osaka International Airport (Itami) to Akita Airport (Approx. 1 hr. 30 min.)
From Sapporo	New Chitose Airport to Akita Airport (Approx. 1 hr. 15 min.)
Airport Bus from Akita Airport to Akita Station	Akita Airport to Akita Station West Gate (Approx. 35 min.)
	Akita Airport to Akita Station East Gate (Approx. 30 min.) *Runs only once/day

## <From Akita Station to Akita University>

As of April 2016

Destination	Bus Route (Akita Chuokoutsu)	Akita Station Platform Location	Final Bus Stop (Travel Time)
Tegata Campus	Daigaku Byoin Line via Tegatayama	West Gate ⑫	Akita Daigaku-mae (Approx. 6 min.)
	● Approx. 15 min. on foot from the East Gate of Akita Station		
Hondo Campus	Taihei Line	West Gate ⑪	Daigaku Byoin-mae (Approx. 15 min.)
	Akanuma Line		
	Matsuzaki Danchi Line	West Gate ⑫	
	Daigaku Byoin Line via Tegatayama		
Hodono Campus	Eki Higashi Line	East Gate ①	Haranomachi (Approx. 10 min.)
	Akanuma Line	East Gate ②	
	Kanda Asahino Line	West Gate ⑩	
Kanda Tsuchizaki Line			
	Soegawa Line		



## University Calendar

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### ●Academic Year

First Semester

... 1 April - 30 September

Second Semester

... 1 October - 31 March

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### ●Ceremonies

Entrance Ceremony..... 6 April

Graduation Ceremony... 22 March

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### ●School Breaks (2016-2017)

Summer Break

... 13 August - 30 September

Winter Break

... 26 December - 8 January

Spring Break

... 22 February - 4 April

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Logo



The four points below describe the meanings embedded in the Akita University Logo:

1. It depicts the "A" in "Akita University".
  2. It resembles the curve of the Akita Prefecture coastline.
  3. It represents the structure of the University, which is comprised of four faculties.
  4. It expresses the contributions, both local and global, made by the University.
-

# Akita University Outline **2016 Edition**

[Editing and Publication]

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