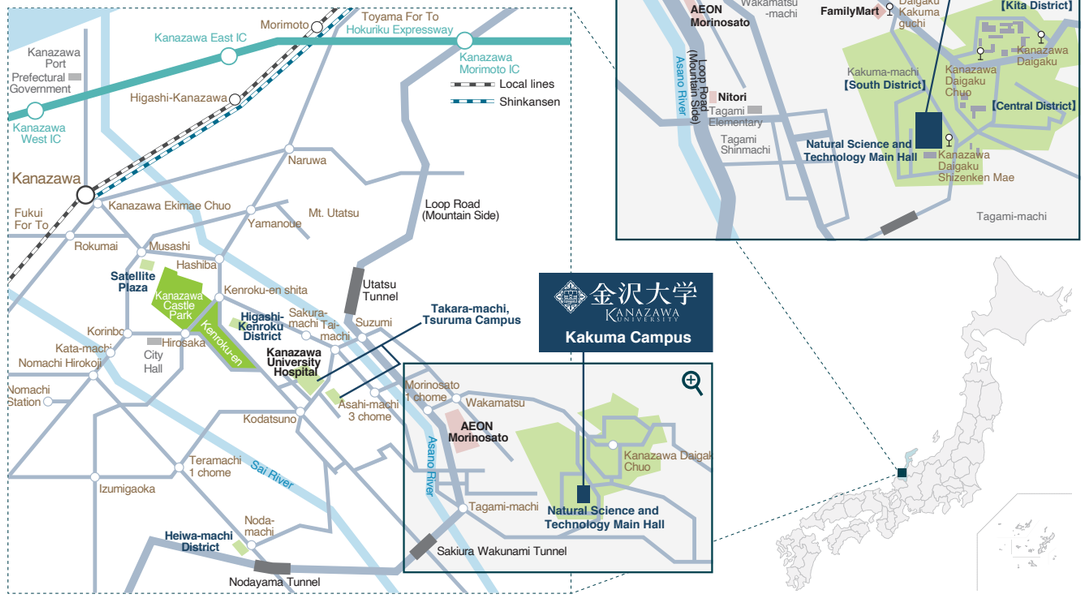
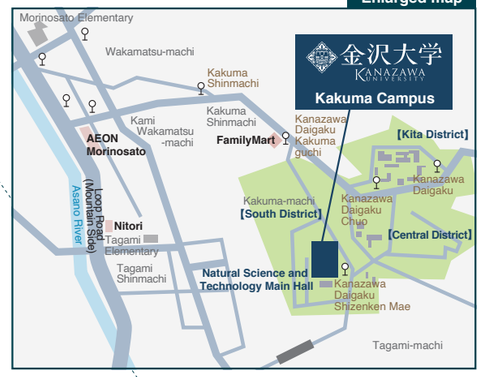
Access

■Access from Kanazawa Station (Kenroku-en Exit / East Exit) to Kakuma Campus, Kanazawa University

[By Hokuriku Railroad Bus] Local lines［93］［94］［97］for “Kanazawa University (via Kenroku-en),” get off at “Kanazawa Daigaku Shizenken Mae (Natural Science& Technology Hall at Kanazawa U)”Takes about 35 minutes from JR Kanazawa Station



Enlarged map



■Access to Kanazawa City

*Please check the actual timetable on each public transportation website.

From Tokyo / Nagano Area

By Air	[Haneda] — [Komatsu]	10 flights / Day	1 hour	* Komatsu Airport – Kanazawa Station: 40 minutes by Express Bus
JR	[Tokyo] — [Kanazawa]	《"Kagayaki" Hokuriku Shinkansen》	2 hours and 28 minutes	* Toyama – Kanazawa 18 minutes
JR	[Nagano] — [Kanazawa]	《"Kagayaki" Hokuriku Shinkansen》	1 hour and 6 minutes	
Express Bus	[Shinjuku Station] — [Kanazawa]	4 – 8 buses / day	7 hours and 25-55 minutes	
Express Bus	[Tokyo Station] — [Kanazawa]	1 bus / day	8 hours and 30 minutes	

From Osaka / Kyoto area

JR	[Kyoto] — [Tsuruga] — [Kanazawa]	《Special Express "Thunderbird"》	2 hours	* Fukui – Kanazawa 25 minutes
JR	[Osaka] — [Tsuruga] — [Kanazawa]	《Special Express "Thunderbird"/ Hokuriku Shinkansen》		2 hours and 30 minutes
Express Bus	[Kyoto] — [Kanazawa]	6 buses / day	4 hours	
Express Bus	[Osaka] — [Kanazawa]	6 buses / day	4 hours and 50 minutes	

From Nagoya area

JR	[Nagoya] — [Maibara] — [Tsuruga] — [Kanazawa] 《Tokaido Shinkansen / Special Express "Shirasagi"/ Hokuriku Shinkansen》		2 hours and 25 minutes	* Shinkansen Transfer 2 hours and 30 minutes
Express Bus	[Nagoya] — [Kanazawa]	10 buses / day	4 hours	

From other areas

By Air	[Sapporo / Fukuoka / Naha] — [Komatsu]			

金沢大学 KANAZAWA UNIVERSITY

Student Affairs Division,
Transdisciplinary Sciences Administration Department
Kakuma-machi, Kanazawa, Ishikawa 920-1192
E-mail: yugonyusi@adm.kanazawa-u.ac.jp
Tel: 076-264-5910　Fax. 076-264-5899

College Web Site

KU Admission Information App

Download Now

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R6 Ver.2
2025.03

金沢大学 KANAZAWA UNIVERSITY

Kanazawa University

College of Transdisciplinary Sciences for Innovation

R6 Ver.2

School of Entrepreneurial and Innovation Studies
School of Tourism Sciences and Design
School of Smart Technology and Innovation

Change yourself! Change the future!

Opportunities to encounter new knowledge and challenges are waiting for you. Learn to have multifaceted perspectives, turn your deep knowledge into your wings, and fly to the sky. There is no border in the sky. You are in control of your limit and potential. Don’ t just imagine the future, start creating one from here.

School of Entrepreneurial and Innovation Studies	Established 2021
School of Tourism Sciences and Design	Established 2022
School of Smart Technology and Innovation	Established 2023

President of Kanazawa University

WADA, Takashi

Creation of "Future-oriented Intelligence" to open up the new world

Today, the structure of industry is changing at an ever-accelerating pace due to advances in AI and robotics technologies, as well as digital transformation (DX). In Japan, a futuristic vision of economic development and solutions to social issues is coming to fruition. A "Super-Smart Society 5.0" is being realized, which fuses virtual space and the physical world. At the same time, global issues surrounding peace, energy, and other concerns are on the rise.

The basic philosophy of Kanazawa University is, as stated in its Charter, to be "a research university dedicated to education, while opening up its doors to both local and global society." Offering a learning environment in which students can "teach and nurture themselves," we aspire to help bring forth a hopeful society by leading the way in solving contemporary issues through "comprehensive knowledge" integrating the humanities and sciences. Furthermore, we will leverage "Future-oriented Intelligence"—the wisdom to explore future issues and overcome them, the wisdom to create future values and future societies—to foster "Kanazawa University-brand" human resources with the ability to become core leaders in the international community.

In April, 2021, a new academic endeavor called the College of Transdisciplinary Sciences for Innovation was established as a center for education that integrates the humanities and sciences in response to Society 5.0.

This college comprises three schools committed to fostering and providing talent to lead innovation. The School of Entrepreneurial and Innovation Studies aims to produce human resources who can transform society and create a new future in ways that challenge conventional wisdom. The School of Tourism Sciences and Design seeks to cultivate human resources who will lead Japan's tourism industry and create a society driven by the design of new value. The School of Smart Technology and Innovation is working to create future science anticipating sustainable smart cities.

In order to integrate various fields and systems, it is essential to strengthen our interdisciplinary liberal arts education and STEAM education. Also, it is important for students to engage in friendly competition with one another and experience overseas study and internship programs. I expect our students to believe that they can change themselves and the future, to acquire rich intelligence, and to interact with others who have diverse viewpoints and opinions.

It is you, the students of Kanazawa University, who will create "Future-oriented Intelligence" to open up the new world. The entire Kanazawa University community will support your enthusiastic learning.

Dean of College of Transdisciplinary Sciences for Innovation,
Dean of Institute of Transdisciplinary Sciences for Innovation

IIYAMA, Koichi

Transdisciplinary studies for future innovation

The College of Transdisciplinary Sciences for Innovation was established in April 2021, becoming the fourth college of Kanazawa University. It engages in research and education through three schools: the School of Entrepreneurial and Innovation Studies, the School of Tourism Sciences and Design, and the School of Smart Technology and Innovation.

The concept of this college is to foster human resources who use their transdisciplinary knowledge to lead innovation. Transdisciplinary knowledge combined with data science skills empowers us to identify and solve social issues in ways that contribute to local and global communities. We aim to develop such innovative human resources who demonstrate core leadership in a knowledge-intensive society.

Under that concept, this college provides students with a wide range of basic transdisciplinary knowledge and Project Based Learning opportunities to acquire skills for identification and solution of issues.

Our teaching staff's specialties span many different fields, and our students represent a mix of backgrounds in the sciences and humanities. By having everyone engage in study and discussions together in this diverse environment each day, our college fosters innovative ways of thinking.

Modern society moves with incredible speed and intensity. For instance, as you well know from reading the daily news, generative AI and drone technology are evolving rapidly. To more effectively utilize such advances in the future smart life, further innovation needs to be carefully achieved in various ways.

The key words are Transdisciplinary, Innovation, Entrepreneurial and Design Thinking.

Let's discover our new selves and lead innovation together at this college. We are looking forward to having you join us.

INDEX

Head of School of Entrepreneurial and Innovation Studies, Chair of Faculty of Transdisciplinary Sciences for Innovation

NAKAYAMA, Shoichiro

What do you want to learn for what purpose?

School of Entrepreneurial and Innovation Studies, in the College of Transdisciplinary Sciences for Innovation was established in April 2021, and now have its first batch of students. Some people may associate the name College of Transdisciplinary Sciences for Innovation with a broad range of liberal arts and science subjects. At our university, we learn a wide range of knowledge and technology in various fields such as humanities, social sciences and natural sciences. However, what really matters is not acquiring knowledge, but what are you going to learn to serve a specific purpose.

It is becoming increasingly necessary to have the ability to identify and respond to the challenges that will arise in society in the future. On the other hand, in order to deal with future challenges that are becoming more complex and diverse, conventional education is not enough. It is necessary to create new value by combining existing academic fields and/or achievements. Therefore, the students learn what is necessary to solve their issues, whether it be humanities or science, through a so-called "back-casting learning," and they will work on solving problems by fusing different fields.

This school aims to cultivate human resources who lead social transformation and innovation in various fields with a pioneering spirit. We have established a curriculum to achieve these objectives. There are also mandatory subjects such as entrepreneur related subjects, practical exercises and international internships (or study abroad). Through these courses, by providing opportunities to encounter diverse people and values, we will nurture the ability to actively communicate in the international community, and the ability to independently take on challenges.

The School of Entrepreneurial and Innovation Studies attracted many enthusiastic students from all over Japan. We are confident that in four years we will be able to send human resources to the world who will lead social change through mutual stimulation and friendly competition. To this end, the teachers will support the students closely. If you want to change society and try new things, why not change yourself and the future in the College of Transdisciplinary Sciences for Innovation? Let's create a new society and future from transdisciplinary learning.

Head of School of Tourism Sciences and Design

SAMUTA, Hikaru

Pursuing tourism innovation

The School of Tourism Sciences and Design was established in April 2022, following the School of Entrepreneurial and Innovation Studies. Although the pandemic and international conflicts have made the world unstable in recent years, there is a robust need for people to seek out empathy in far and different regions. Tourism is an important element for actualizing sustainable peaceful societies where diverse people gather, talk, and understand each other.

This school aims to cultivate human resources to lead new tourism innovation as liaisons between local and global communities. Today, travel has greatly transformed due to the evolution of modes of transportation and communication tools. For instance, even ordinary places can attract a phenomenal number of visitors once those areas get interesting narratives. Also, many people can now work remotely while they travel around. On the other hand, virtual tours is also available. These phenomena will change lifestyle and create new services and businesses, while giving rise to new social issues as well.

One feature of this school is that its education program integrates the humanities and sciences to pave the way to a hopeful society. The combination of humanities, social sciences, and natural sciences enable the students to propose and implement their own projects. Endeavors for designing future tourism require competency in areas such as mathematics, data analysis, design, and business. Instead of specializing in a single field, students gain an understanding of the roles of diverse specialties and learn management approaches that combine those different disciplines.

Another feature of this school is that it focuses on practical subjects starting early in the school year. As participants in local tourism projects, students are trained to tackle social issues by combining their specialized knowledge and practical experiences. We expect our students to become practitioners of local tourism innovation by experiencing curricula that leverage the rich sightseeing resources of our local community, Kanazawa, Hokuriku.

Head of School of Smart Technology and Innovation

YAMAMOTO, Shigeru

A new society created by smart science and technology

The School of Smart Technology and Innovation was established in April 2023, following the School of Entrepreneurial and Innovation Studies and the School of Tourism Sciences and Design. Remarkable progress has been achieved in science and technology recently, and further rapid advances in artificial intelligence have started to make a huge impact on our everyday lives. Because of these changes, our school has set the educational goal of fostering human resources who can solve social issues and create new value by wielding cutting-edge technologies such as AI, IoT, and Big Data.

This school offers broader perspectives and insights through learning that ranges from fundamental disciplines such as information science, electrical and electronic engineering, physics, and mathematics to applied subjects such as information communication including AI, robotics, image recognition, and control engineering. Moreover, students acquire skills to actualize a smart society based on insights from social science and medicine. Our school aims to develop human resources who produce the innovation needed to enrich human life in diverse ways, including innovation that promotes well-being, revitalizes industries, creates new industries, and realizes a safe and resilient society.

Students can compose their own curriculum by choosing from a wide range of subjects based on their interests and ability. In addition, through practical projects and internships, they can obtain skills to tackle social issues while deepening their relationships with businesses and communities. The process of identifying a particular social issue and solving it by selecting the appropriate direction of science and technology and collaborating with specialists is one that requires the ability to harmonize various project members, like a conductor harmonizing different instruments.

Graduates are expected to achieve success in various fields such as research and development in the automobile or medical equipment industries, marketing planning, and entrepreneurship. We welcome students who want to create a better society with smart science and technology.

College of Transdisciplinary Sciences for Innovation

School of Entrepreneurial and Innovation Studies Established April, 2021
School of Tourism Sciences and Design Established April, 2022
School of Smart Technology and Innovation Established April, 2023

Leading innovation with Transdisciplinary knowledge

Utilizing dynamic transdisciplinary knowledge produced by a borderless curriculum and the insights of diverse instructors and students, the college aims to foster future leaders who can create innovation for the world.

The School of Entrepreneurial and Innovation Studies welcomed its inaugural class of students in 2021, followed by the School of Tourism Sciences and Design in 2022 and the School of Smart Technology and Innovation in 2023. Transfer admission to the third year also began in 2023. New chapters in the college's growth lie ahead, starting with the upcoming establishment of the related graduate school in 2025.

College of Transdisciplinary Sciences for Innovation: The Characteristics

The transdisciplinary curriculum allows students to acquire diverse and cutting-edge expertise.

- With the well-rounded transdisciplinary curriculum, students can learn the latest knowledge, science and technology broadly and deeply, in accordance with their interests.
- Students can take courses of three core areas in parallel, and decide their own projects while learning a wide range of future themes.
- The custom-made courses guidance allows students to explore diverse fields and seek clues to solve their issues, while studying both 3 courses from the core areas and 2 courses from the exploratory areas.
- Through in "Back-casting Leaning-system"*.(* Back-casting Learning-system is to enable students to return to the areas whenever they feel the need to do so.)
- We will continue to build and expand our transdisciplinary education model through STEAM education, in view of implementing to the society.

Covers a wide area across 3 colleges and outside of the university through "Global Standards" program in the common and specialized education.

- From the beginning of the first year, students effectively learn both the common subjects based on Kanazawa University "Global" Standard (KUGS), and the fundamental subjects of our university and in the College of Transdisciplinary Sciences for Innovation.

［Kanazawa University "Global" Standard］

Kanagawa University's Standards of Human Resource Development
(6 academic achievements)

KUGS

1. Know one's own position
2. Know and train oneself
3. Express thoughts and values
4. Connect with the world
5. Tackle future problems
6. Live in a new society

- College of Transdisciplinary Sciences for Innovation is diverse with freshmen through various types of admission, transfer students the second year, transfer admission students the third year. This can enrich diversity environment and widen co-learning areas. The prioritized program for government-financed International Student has been authorized.
- Related programs are available and they are helpful especially for students with double majors. The programs include; "Integrated Regional Study" from the special program for general education, Special program for Data Science, and STEAM HR development program, Disaster Prevention and Reconstruction program for School of Entrepreneurial and Innovation Studies.

Practical entrepreneurship education fosters future leaders who innovative for society.

- From the middle of junior year to senior year, students will be able to apply and integrate their knowledge and take on the challenge to solve their issues and launch practical experiments and social implementation projects through various internships.
- In Disciplinary [TANREN] courses, students learn new knowledge and co-creation with others in a diverse environment through project exercises.
- Collaborating with faculty members and people outside of the university, and with their free ideas, students learn how to tackle the status quo and future issues, in autonomous and practical ways.
- In 2025 we establish a new graduate school for those students who wish to further their studies and expand their future options.

In the College of Transdisciplinary Sciences for Innovation, teachers provide thorough instruction for students to select the most suitable courses for individuals from a variety of transdisciplinary courses. As a place for collaboration between students and faculty, we hold the next guidance every year, and draw up a custom-made "learning plan" focusing on students' interest while connecting the direction of future issues with the beginning of problem solving.

Orientations	upon enrollment	Course guidance and school orientation upon enrollment.
Fundamental [KIBAN] Guidance	for Freshmen	Instructors assigned to each class provide guidance on all aspects of academic affairs and student life, including study methods and extra-curricular activities.
Transdisciplinary [YUGO] Guidance	for Sophomores	A custom-made "Learning Plan I" will be prepared based on each student's study status and academic progress in common education subjects. Based on the systematized learning, students set up tasks and use the advice of teachers to clarify their future vision.
Exploratory [TANKYU] Guidance	for Juniors	A "Learning Plan II" will be prepared based on the study status and progress in the core area, and the direction toward setting future tasks. If necessary, students take courses in other academic schools with back-casting learning* to acquire basic knowledge. Learning in various fields under the guidance of teachers also helps to set future tasks.
Establishing [KAKURITSU] Guidance	for Seniors	In addition to reviewing the progress of the "Learning Plan I / II" with the instructor, the instructor will guide the students to do back-casting learning* and take other courses according to their individual learning. In addition, regarding graduation research, exercises, and examinations, students are advised to receive guidance from experts and entrepreneurs in fields different from those of the instructors if necessary.

* Back-casting learning: When you envision your ideal self to be active in the future society, there may be areas where you feel you are not learning enough. In such a case, even after you have moved on to the academic knowledge phase, you can go back and study the specialized basic subjects.

We also have a number of ways to seek advice, support, guidance, including from teachers of other colleges,
- Career consultants, industrial counselors, people with experience in the business, extramural people are in the Career Support Room in Student Support Division;
- Medical doctors, approved counselors, health nurses, and nurses are at the Health Service Center; and
- Members of Students-with-handicaps Support Room, staff members of the Transdisciplinary Sciences Administration Department are in the "counseling room" (mainly in the first year), all of them are waiting for you.

Promoting Employment in Japan for Students from Overseas

For international students looking to find a job in Japan, we offer special programs for them to study the curriculum of the College of Transdisciplinary Sciences for Innovation while emphasizing the use of business and the acquisition of Japanese language skills from the time they enter the school. We also plan to provide generous support for students' lives, such as tuition reduction and stipend scholarships.

Employment / Further Learning Status (of graduates of Year 2021 4-year undergrad program)

Since the College of Transdisciplinary Sciences for Innovation was established in 2021 as a completely new academic domain without a predecessor organization, this table lists the data for the 15 academic schools in the university's 3 established academic colleges. The figures do not include the 158 graduates of the 6-year bachelor's degree programs (123 in the Schools of Medicine and 35 in the School of Pharmacy).(As of May 2024)

Categories		College of Human and Social Sciences	College of Science and Engineering	College of Medical, Pharmaceutical, and Health Sciences	Total
Graduates (4-year program)		677	599	240	1,516
Students entering graduate schools (including *Bekka*, Undergraduate Training Course for School Nurses)		7.7%・52	75.8%・454	35.8%・86	39.1%・592
Students who seek employment Employment rate **98.4%** (obtained and seeking)	Industry world	342	107	5	454
	Public workers / Teachers	232	20	6	258
	Medical workers	5	0	138	143
	Self-employed	4	2	0	6
	Total number of job finders	86.1%・583	21.5%・129	62.1%・149	56.8%・861
Other (including returnees, researchers and those who prepares for tests)		42	16	5	4.2%・63

♦In 2025 a graduate school is established by the time the first students of College of Transdisciplinary Sciences for Innovation graduate.

◆Please check our website and the Application Guidelines for the latest information.
◆Also, please make sure to go over the details of our admission policies, which can be accessed via the QR code on the right.

https://www.kanazawa-u.ac.jp/admission/boshuyoko

Basic policies for the 2025 Admission screening

[Upper Limit of the Number of Students to Be Admitted] School of Entrepreneurial and Innovation Studies : 55
School of Tourism Sciences and Design : 55
School of Smart Technology and Innovation : 55

1. General Admission

First Schedule / Liberal Arts-oriented Selection, Science-oriented Selection

Number of Students to Be Admitted

School of Entrepreneurial and Innovation Studies	Liberal Arts-oriented Selection: 20	Science-oriented Selection: 20
School of Tourism Sciences and Design	Liberal Arts-oriented Selection: 23	Science-oriented Selection: 14
School of Smart Technology and Innovation	Liberal Arts-oriented Selection: 15	Science-oriented Selection: 27

First Schedule / Liberal Arts Education Division and Science Education Division

Number of Students to Be Admitted

School of Entrepreneurial and Innovation Studies: 3 for liberal arts, 3 for science
School of Tourism Sciences and Design: 2 for liberal arts, 2 for science
School of Smart Technology and Innovation: 1 for liberal arts, 3 for science

2. Special Admission

KUGS Admission / Comprehensive Selection II

Number of Students to Be Admitted

School of Entrepreneurial and Innovation Studies 6
School of Tourism Sciences and Design general 6 Local Special 6
School of Smart Technology and Innovation 3

KUGS Admission / Admission by Digital Talent II

Number of Students to Be Admitted School of Smart Technology and Innovation 6

KUGS Admission / Admission by Disaster Prevention and Reconstruction Talent II

Number of Students to Be Admitted School of Tourism Sciences and Design 2

Other than the above, a few are accepted through KUGS Admission / Comprehensive Selection based on English language Skills II, Special Talent Admission by A-lympiad Award, Special Talent Admission by CHOZEN Literature Award, S.A. by Recommendation for Students Living Overseas, S.A. for Adult and Non-traditional students, S.A. for Returnees, S.A. for International Baccalaureate and S.A. for Self-funded International Students.(3 Government-financed international students are only for School of Entrepreneurial and Innovation Studies)

In 2025 the Division of Convergence Science is established in the Graduate School of Frontier Science Initiative

～ Creation of convergence knowledge will build future society ～

The Division of Convergence Science is established in the Graduate School of Frontier Science Initiative in 2025 as a graduate school associated with the College of Transdisciplinary Sciences for Innovation.
The Master's course at this division will build the future of society by amassing diverse insights and utilizing convergence knowledge to advance society's growth.
Convergence knowledge is the pooling of diverse insights to produce intellectual vitality that creates new values. The pursuit of such convergence knowledge will elevate the power of science, technology, and innovation.
We seek to create convergence knowledge and cultivate human resources by developing transdisciplinary education.
Please check the website linked below for information on admissions.

Graduate School of Frontier Science Initiative
https://gsinfiniti.w3.kanazawa-u.ac.jp/en/

Established April, 2021

College of Transdisciplinary Sciences for Innovation

School of Entrepreneurial and Innovation Studies

In the age of AI, those who seek to play a role in a society that values problem-solving ability must proactively learn about the problems they wish to tackle, using a transdisciplinary approach. In 2021, we established the School of Entrepreneurial and Innovation Studies in the College of Transdisciplinary Sciences for Innovation to develop the next generation of leaders who will spearhead the solution of diverse complex social issues with approaches that involve many different people.
In Disciplinary [TANREN] courses, in addition to International Internship Programs or Study Abroad Programs as a required course, students learn new knowledge and co-creation with others in a diverse environment through project exercises. Collaborating with teachers and people outside of the university, and with their free thinking, students learn how to engage with the status quo and future issues in practical ways.

[General Admission]

First schedule (Liberal Arts-oriented Selection and Science-oriented Selection), First schedule (Liberal Arts Education Division and Science Education Division)

[Special Admission]

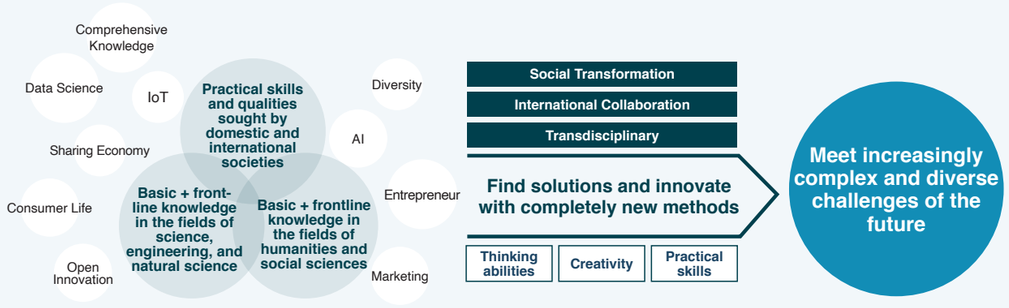
KUGS Admission (Comprehensive Selection II, Comprehensive Selection based on English language skills II), Special Talent Admission (CHOZEN Selection) (Admission by A-lympiad Award I, Admission by CHOZEN Literature Award), S.A.by Recommendation for students Living Overseas, S.A. for Adult and Non-traditional students, S.A.for Returnees, S.A. for International Baccalaureate, S.A. for Self-funded International Students, and S.A. for government-financed International Student

Nurture your entrepreneurship to become a next-generation leader who drives the solution of social issues

[Desired Applicants]

The School of Entrepreneurial and Innovation Studies seeks applicants with the following ambitions.

- People who wish to study a variety of fields and then integrate that knowledge to take the initiative in locating and solving issues.
- People who are intellectually enthusiastic about a variety of systems and customs, and who wish to contribute to building a better society.
- People who wish to joint and integrate the latest knowledge and take on the challenge of new creation that contribute to social reform.

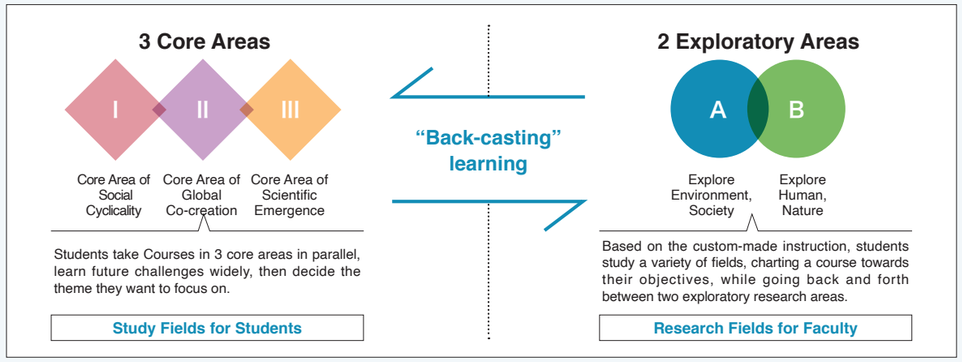


1 Learn Flexibly!
Acquire specialized knowledge, ranging from basic to practical, in the transdisciplinary fields

- Students start studying “Core areas & Exploratory areas” in the first year by taking courses among the core Courses.
- Students learn the latest knowledge and technologie according to their interest ,deeply and widely in the well-balanced transdisciplinary academic fields.

[Core areas & Exploratory areas]

The curriculum systematically allows students to learn cutting-edge contents while also acquiring the fundamentals.



2 Go out into society!
Encounter various people and their values to enhance human drive and ability.

- Through Practical [JISSEN] & Disciplinary [TANREN] Courses, students learn co-creation within society.
- From the first year on, students are encouraged to study hand-in-hand with the business world and the wider community, as well as learn from society.
- From the second year onwards, students are required to participate in either entrepreneur internship, study abroad programs, or international internship programs to gain a lot of experience and acquire practical skills in order to head out into society,

[Fostering Entrepreneurship]

In collaboration with the business community, students learn entrepreneurship and practical methods on and off campus.


3 Take the initiative!
Engage with future issues and take a step toward social transformation.

- From the mid-third to the fourth year, students link and integrate their knowledge acquired by solving the problems they have set up, and launch demonstration experiments and social implementation projects through internships.
- Students learn solutions on a platform originated in business and financial institutions.


[Project Exercise]

Take a deep-dive into your future issues and the solutions, and make them more practical.

Academic Investigation or Exploratory Analysis ⟷ Exploratory Project Seminar ⟷ Study Abroad Programs / International Internship Programs

Curriculum Map

Features of School of Entrepreneurial and Innovation Studies

[The 5th Science and Technology Basic Plan (January 2016)]

Science, technology and innovation are defined as “Innovation in creating intellectual and cultural value based on new knowledge from scientific discoveries and inventions, and expanding this information to create economic, social and public value”

[Integrated Innovation Strategy (June 2018)]

Establishing an educational system in order to produce human resources who are capable of creating scientific and technological innovation is a fundamental task. It is necessary to build an educational system that combines science and engineering sciences with various fields including humanities and social sciences and we have to consider how we can apply this knowledge from non-science and engineering fields to science and technology innovation.

Based on the recommendations of the government, we will systematically conduct transdisciplinary and entrepreneurship education to work to lead new social transformations.

[Specialized Education Map]

Thorough study guidance by increasing the number of advisors

A customized learning plan is created by monitoring the learning progress and the future vision of each student.

Curriculum emphasizing problem-identifying-and-solving models.

Students take a systematic course of study, from searching for problems and applying solution to society.

Practical education in a diverse environment

Using a variety of entrance examination systems, we create a diverse environment that includes international students and adults

Fundamental [KIBAN] Guidance

GS Courses for Undergraduates

Courses required to learn specialized skills common to the college

GS English Language Courses for Undergraduates

Students are required to take these courses to improve their practical English proficiency.

Learning Plan

Study guidance on “Core areas” in “Core [KOA] Courses”

Transdisciplinary [YUGO] Guidance

Social Cyclicality | Global Co-creation | Scientific Emergence

Search for problems

Core [KOA] Courses

Students study across three core areas to determine the direction of future topics they want to explore.

Practical [JISSEN] Courses

In order to foster entrepreneurship with a view to apply the skills in the society, courses are systematically arranged with a focus on exercises.

Students engage in group work to explore issues through co-creation with other people with diverse backgrounds, such as international students and working adults.

Learning Plan

Study guidance from “Academic Knowledge [GAKUCHI] Courses” to “Disciplinary [TANREN] Courses”

Exploring [TANKYU] Guidance

exploration of problems

Academic Knowledge [GAKUCHI] Courses

Students explore their own future themes in greater depth, regardless of academic field.

System for increasing the number of academic supervisors

Disciplinary [TANREN] Courses

5 Courses available, 3 Courses required

Deepen one's own learning through co-creation with others

Establishing [KAKURITSU] Guidance

Establishment [KAKURITSU] Courses

Graduation Thesis Research/ Graduation Thesis Seminar/ Qualifying Examination

Students learn reasoning skills while being well aware of social implementation.

Become a leading human resource for social change with integrated expertise!

[School of Entrepreneurial and Innovation Studies: Academic achievement attained at graduation]

- Ability to learn and understand the latest multi-dimensional knowledge to lead social transformation
- Ability to understand future issues, gather and analyze diverse information about people, things, and issues.
- Ability to think logically for problem solving and social implementation
- Ability to communicate actively in the international community with expertise in languages and other cultures in order to fulfill one's mission
- Ability to have high motivation for creating businesses and taking an active and proactive approach to challenges, ideas and actions

[Degree Awarded]

Bachelor of Arts and Sciences

A degree awarded only by this college in our university, which shows that students have learned transdisciplinary fields in an integrated manner.

Curriculum

With a view to social change, students can learn the latest knowledge, science and technology in a wide range of depth through an entrepreneurship-training stratified curriculum.

Studies in Liberal Arts and Sciences — 36 credits or more

Introductory Courses to Academic Studies | **GS General Education Courses** | **GS Language Courses**
Additional Foreign Language Courses or Natural Sciences and Mathematics Courses | **Elective Courses**

Studies in Specialized Fields — 88 credits or more

GS Courses for Undergraduates — 6 credits

Academic Skills
Introduction and Practicum for Mathematical Data Science
Presentation and Debate
Design Thinking
Introduction to Innovation

GS English Language Courses for Undergraduates — 2 credits

Practical International English
Interaction
Reading and Discussion
Current Issues and Academic English
English for STEM
Presentation
Science and Society

Specialized Basic Courses

Practical [JISSEN] Courses — 10 credits

Introduction to Entrepreneurship
Design Thinking Seminar
Entrepreneur Competitions /Leadership in Practice
Entrepreneurship Seminar I
Entrepreneur Internship
Entrepreneurship Seminar II
Entrepreneur Competitions/Leadership Training

Core [KOA] Courses — 18 credits

Core Area of Social Cyclicality

Introduction to Finance
AI and Future Society
Ethics
Contemporary Society
Social Change and Labor Productivity
Sharing Economy
Introduction to FinTech and Advanced Business
Super Smart City and Society 5.0
Consumer Life Theory

Core Area of Global Co-Creation

Diversity Promotion
Human Flow and Settlement
Introduction to SDGs
Introduction to Marketing
Cross-Cultural Understanding and Career Development
Globalization
International Cooperation Systems
International World and Patents
Business and Politics/Economy

Core Area of Scientific Emergence

Introduction to Technology
Introduction to Mathematical Statistics
IoT Technology
Artificial Intelligence
Medicine from Social Perspectives
Medicine from Life Science Perspectives
Technology and World Innovations
Global Problems and Technology Trends
Future of Medical Science

Specialized Courses

Academic Knowledge [GAKUCHI] Courses — 30 credits

Introduction to Mathematical Modeling
Practical Approach for SDGs
Marketing
Information Network
Project Management
Computers and Digital Circuit
Life Design
Hyper-Aged Society and Science Technology
Application Development
Management Accounting
Technology of Medicine, Health, and Care
Regional Revitalization
Optics Technology
Regulatory Science
Computers and Electronic Circuit
Advanced Medicine
Practical Approach for Data Science
Business Management
General Psychology
Reform of Medical System and Medical Economics
Urban Transportation Planning
Intellectual Property Law
Regional Comprehensive Care and Revitalization
Material Science
Database System
Planning Optimization
Future-oriented Healthcare System
Global Environment and Its Dynamics
AI / IoT Health and Welfare
Environmental Basic Science
Programming Skills
Demand Forecasting
Business Incubation
Public Policy
Sensing Technology
ESG Investment
Life Environmental Studies
Theory of Corporate Strategy
International Management
Precision Medicine
Comparative Systems
Machine Learning
Innovation Management
Brain-machine Interface

Disciplinary [TANREN] Courses — 4 credits

Exploratory Project Seminar
Academic Investigation
Study Abroad Programs
Exploratory Analysis
International Internship Programs

Establishment [KAKURITSU] Courses — 8 credits

Graduation Thesis Research
Graduation Thesis Seminar
Qualifying Examination

Elective Frame — 10 credits or more

【Among the Studies in Specialized Fields designated separately】

Established April, 2022

College of Transdisciplinary Sciences for Innovation

School of Tourism Sciences and Design

The School of Tourism Sciences and Design was established in 2022 to develop next-generation leaders who can create new value in the rapidly changing world of tourism.
It takes a transdisciplinary approach that enables students to study tourism from diverse angles such as traditional culture, community development, regional revitalization, data science, IoT technology, disaster prevention, sustainable development, and transformation of industry structure.
Classes are openly coordinated with local governments and corporations, and practical trainings are held in the tourism city of Kanazawa, including tourism strategy for local revitalization in the wake of the 2024 Noto Peninsula earthquake.

[General Admission]

First schedule (Liberal Arts-oriented Selection and Science-oriented Selection), First schedule (Liberal Arts Education Division and Science Education Division)

[Special Admission]

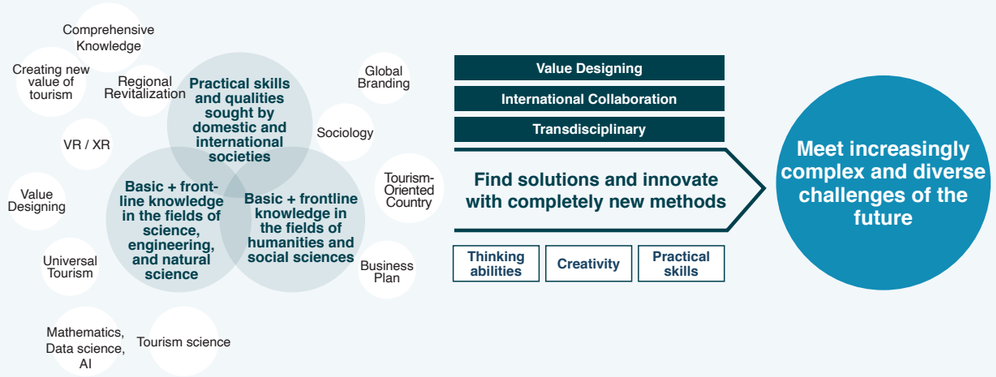
KUGS Admission (Comprehensive Selection II, Disaster prevention and Reconstruction talent II, Comprehensive Selection based on English language skills II), Special Talent Admission (CHOZEN Selection) (Admission by A-lympiad Award I, Admission by CHOZEN Literature Award), S.A.by Recommendation for students Living Overseas, S.A. for Adult and Non-traditional students, S.A. for Returnees, S.A. for International Baccalaureate, S.A. for Self-funded International Students , and S.A. for government-financed International Student

Become a next-generation leader in tourism by designing new tourism values!

[Desired Applicants]

The School of Tourism Sciences and Design seeks applicants with the following ambitions.

- People who wish to study a variety of fields and then integrate that knowledge to take the initiative in locating and solving issues.
- People who are intellectually enthusiastic about a variety of systems and customs, and who wish to contribute to building a better society.
- People who wish to joint and integrate the latest knowledge and take on the challenge of the creation of new value that contribute to tourism.



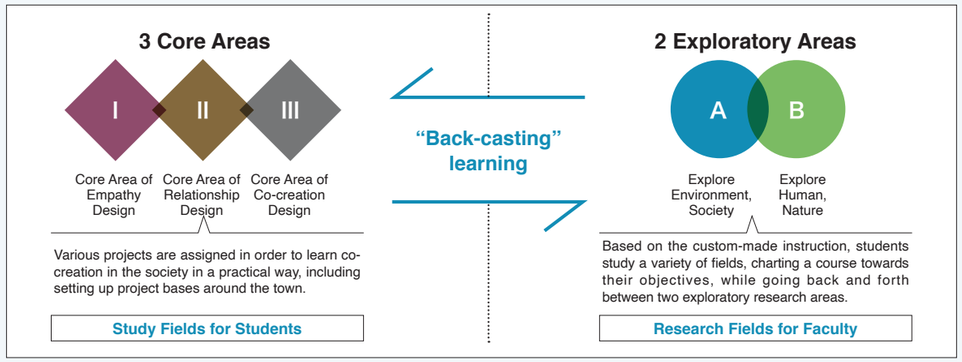
3 Features

1 Learn Flexibly!
Acquire specialized knowledge, ranging from basic to practical, in the transdisciplinary field

- Students learn the latest knowledge and technologie according to their interest ,deeply and widely in the well-balanced transdisciplinary academic fields.
- Students learn the basics for tourism and business technologies in 3 approaches: humanities; social sciences; and natural sciences.
- Students deep dive into their own “theme” by learning back and forth between 3 core areas and 2 exploratory areas.

[Core areas x Exploratory areas]

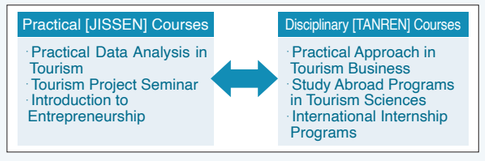
The curriculum systematically allows students to learn cutting-edge contents while also acquiring the fundamentals.



2 Go out into society!
Learn co-creation and practical skills with society through participating in various projects

- Through Practical [JISSEN] & Disciplinary [TANREN] Courses, students learn co-creation within society.
- Practical trainings take place at the project bases in the city, in cooperation with local governments and industries.
- Students choose from practical approach in tourism business, study abroad programs in tourism Sciences and international internship programs to implement short- and long-term projects.
- Students create new tourism value in collaboration with society based on their expertise and free ideas.

[Participating in a variety of innovative projects]




Kenrokuen


International Internship Programs

3 Regional Revitalization
Utilize valuable designs in tourism to influence the presence in local communities.

- Students will design regional revitalization in the future, expecting the synergy effect of region, university and industry.
- Utilizing local resources, issues, and knowledge, students take a multifaceted view of thinking, ideas, and practices, and learn about economic revitalization, industrial creation and promotion, and development of new ideas based on study of the past.
- Students will learn practical solutions on a platform that originated in Kanazawa City, Ishikawa Prefecture.
- Trained in transdisciplinary data-driven tourism science, students will create, develop, and promote innovative tourism.


Gold Leaf Craft (Kanazawa City produces 99% of gold leaf in Japan)
Photo provided by Kanazawa City

Curriculum Map

Features of School of Tourism Sciences and Design

[Basic Policy on Economic and Management Reform 2020 (July, 2020)]

The potential for inbound tourism seems great, even in the post-COVID-19 era. The government will work to bring the public and private sectors together to achieve a nation that is highly developed in terms of tourism, working towards achieving a goal of 60 million international visitors in 2030.

[Intellectual Property Strategy Vision (June, 2018)]

The shape of a desirable society where diverse values beyond economic values are embraced and a wide range of new values are created and disseminated to receive empathy and respect from countries around the world by exercising the multifaceted abilities of diverse personalities and making good use of the “characteristics of Japan.”

Based on the recommendations of the government, we will systematically conduct transdisciplinary and entrepreneurship education to develop new tourism designs.

[Specialized Education Map]

Thorough study guidance by increasing the number of advisors

A customized learning plan is created by monitoring the learning progress and the future vision of each student.

Curriculum emphasizing problem-identifying-and-solving models

Students take a systematic course of study, from searching for problems and applying solution to society.

Practical education in a diverse environment

Using a variety of entrance examination systems, we create a diverse environment that includes international students and adults

Fundamental [KIBAN] Guidance

GS Courses for Undergraduates

Courses required to learn specialized skills common to the college

GS English Language Courses for Undergraduates

Students are required to take these courses to improve their practical English proficiency

Learning Plan

Study guidance concerning ways to take Fundamental [KIBAN] Courses

Transdisciplinary [YUGO] Guidance

Fundamental [KIBAN] Courses

Learn the basics of tourism in 3 approaches

A wide range of businesses and technology fundamentals, including tourism, can be learned through transdisciplinary fields and back-casting learning.

Practical [JISSEN] Courses

In order to foster entrepreneurship with a view to social implementation, courses are systematically arranged with a focus on seminars and exercises

Students engage in group work to explore issues through co-creation with other people with diverse backgrounds, such as international students and working adults.

Learning Plan

Study guidance from “Academic Knowledge [GAKUCHI] Courses” to “Disciplinary [TANREN] Courses”

System for increasing the number of academic supervisors

Exploring [TANKYU] Guidance

Empathy Design | Relationship Design | Co-Creation Design

Academic Knowledge [GAKUCHI] Courses

Learning three core areas back and forth

Placing one core area as the main one, students learn the other core areas back and forth.

Disciplinary [TANREN] Courses

Practical Approach in Tourism Business, Study Abroad Programs in Tourism Sciences, International Internship Programs

Refining practical skills through socially implemented seminars and overseas learning

Establishing [KAKURITSU] Guidance

Establishment [KAKURITSU] Courses

Graduation Thesis Research / Graduation Thesis Seminar/ Qualifying Examinations

Creating innovation by addressing the issues students set as the culmination of learning

Become a tourism value creator with integrated expertise!

[School of Tourism Sciences and Design: Academic achievement attained at graduation]

- Ability to learn and understand the latest multifaceted insights to design new value in tourism
- Ability to understand future issues, gather and analyze diverse information about people, things and matters.
- Ability to think logically for solving challenges and social implementation
- Ability to communicate actively in the international community with expertise in languages and other cultures in order to fulfill one's mission
- Ability to have high motivation for creating value and positively and actively taking on challenges, ideas, and actions

[Degree Awarded]

Bachelor of Arts and Sciences

A degree awarded only by this college in our university, which shows that students have learned transdisciplinary fields in an integrated manner.

Curriculum

With sociology as a main background students learn the latest knowledge, science and technology in a wide range and depth through a layered curriculum based on the model of problem discovery, solution, and application.

Studies in Liberal Arts and Sciences — 36 credits or more

- Introductory Courses to Academic Studies
- GS General Education Courses
- GS Language Courses
- Additional Foreign Language Courses or Natural Sciences and Mathematics Courses
- Elective Courses

Studies in Specialized Fields — 88 credits or more

GS Courses for Undergraduates — 6 credits

Academic Skills
Introduction and Practicum for Mathematical Data Science
Presentation and Debate
Design Thinking
Introduction to Innovation

GS English Language Courses for Undergraduates — 2 credits

Practical International English
Interaction
Reading and Discussion
Current Issues and Academic English
English for STEM
Presentation
Science and Society

Specialized Basic Courses

Practical [JISSEN] Courses — 13 credits

Introduction to Entrepreneurship
Seminar of Digital Transformation and Project Based Learning in Tourism I
Workshop Design Seminar
Business Plan Making Seminar
Application Development
Tourism Project Seminar II
Entrepreneurship Seminar I
Seminar of Digital Transformation and Project Based Learning in Tourism II
Practical Data Analysis in Tourism
Geographic Information System Seminar
Internship for Personal Development
Tourism Project Seminar III
Entrepreneurship Seminar II
Social Survey in Tourism
Form and Color Design
Programming Skills
Tourism Project Seminar I
Tourism Project Seminar IV

Fundamental [KIBAN] Courses — 19 credits

Introduction to Hospitality
Introduction to Tourism Design
Introduction to FinTech and Advanced Business
Tourism Ethics
Cross-Cultural Understanding and Career Development
Tourism Industry in Hokuriku Region
Interaction Network Engineering
Agriculture,Forestry and Fisheries/Manufacturing Industry in Hokuriku Region
Introduction to Mathematical Behavior Model
Introduction to Finance
Technology and World Innovations
Introduction to Marketing
Public Health in Tourism
Introduction to SDGs
Japanese Crafts and Designs
Diversity Promotion
Sharing Economy
Introduction to Technology
Artificial Intelligence
Super Smart City and Society 5.0
Tourism Law and System
Introduction to Mathematical Statistics
Financial Engineering
Cultures in Urban and Rural Areas in Hokuriku Region
Regional Business in Tourism

Specialized Courses

Academic Knowledge [GAKUCHI] Courses — 26 credits

Core Area of Empathy Design

Entertainment Management
Culture and Consumption Society
Comparative Regional Development
Cultural Heritage
International Project Management
Resource Use and Co-living with Environment
Branding Practicrum
Practical Approach for SDGs
Sustainable Tourism
Global Branding
Culture and Regional Economies
Nature-based Tourism
Ergonomics
Cultural Tourism
Traditional Culture Transformation
Heritage Interpretation
Life Design
Tourism Resource Development
Tourism Resource Management

Core Area of Relationship Design

IoT Technology
Web Content and Review Analysis
Information Policy
Spatiotemporal Data Analysis
Transportation Engineering
International Conflict Management
Demand Forecasting
Practical Approach for Data Science
Applied Analysis of Tourism Data
Global Accessibility
Intellectual Property Law
VR and XR for Tourism
Planning Optimization
Behavioral Economics
Advanced Digital Transformation of Tourism Industry
Urban Transportation Planning
Statistical Decision Making
International Media Analysis
Database System

Core Area of Co-creation Design

Tourism and Regional Management
Tourism Development and Planning
Industrial Design
Community Design
Urban Planning
Planning System and Process
Hospitality Management
Regional Tourism Policy
Regional Sociology
Event Management Theory
Theory of Renovation
Social Business Theory
Sociology of Tourism
Environment and Tourism
Landscape and Infrastructure Design
Regional Management
Social System Engineering
Design of Public Space
Study of Regional Living Environment

Disciplinary [TANREN] Courses — 4 credits

Practical Approach in Tourism Business
Study Abroad Programs in Tourism Sciences
International Internship Programs

Establishment [KAKURITSU] Courses — 8 credits

Graduation Thesis Research
Graduation Thesis Seminar
Qualifying Examination

Elective Frame — 10 credits or more

【Among the studies in specialized Fields】

Established April, 2023

College of Transdisciplinary Sciences for Innovation

School of Smart Technology and Innovation

Smart technology such as artificial intelligence, virtual reality, and autonomous driving is rapidly evolving and becoming a familiar part of our daily lives. The School of Smart Technology and Innovation was established in 2023, completing the formation of the College of Transdisciplinary Sciences for Innovation. This school seeks to use advanced smart technology to solve issues in healthcare, industry, business, and society and create new value. By studying diverse advanced technologies and utilizing Kanazawa University's ICT, students will grow into human resources who can create future digital science for realizing sustainable smart cities. Industries with high expectations for this school support the practical curriculum by collaborating in various projects and hosting internships. This school provides you with the opportunity to study healthcare, improvement of quality of life, social implementation of technology and function, and scientific development of infrastructure and systems so that you can co-create future science with others.

[General Admission]

First schedule (Liberal Arts-oriented Selection and Science-oriented Selection), First schedule (Liberal Arts Education Division and Science Education Division)

[Special Admission]

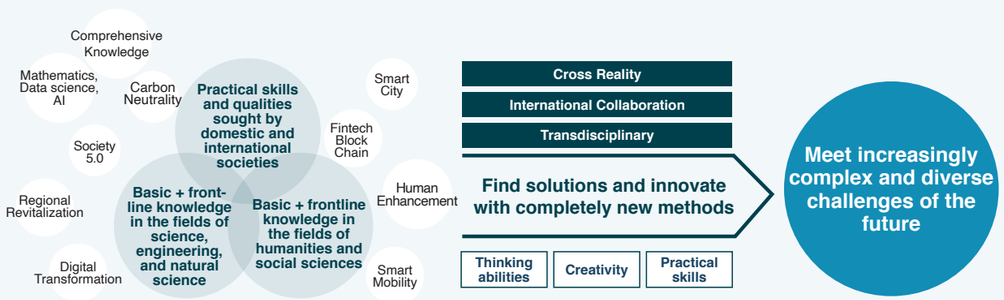
KUGS Admission (Comprehensive Selection II, digital talent II, Comprehensive Selection based on English language skills II), Special Talent Admission (CHOZEN Selection) (Admission by A-lympiad Award I, Admission by CHOZEN Literature Award), S.A.by Recommendation for students Living Overseas, S.A. for Adult and Non-traditional students, S.A. for Returnees, S.A. for International Baccalaureate, S.A. for Self-funded International Students, and S.A. for government-financed Internal Student

Let's utilize advanced smart technology to create a society where everyone can enjoy a good life!

[Desired Applicants]

The School of Smart Technology and Innovation seeks applicants with the following ambitions.

- People who wish to study a variety of fields and then integrate that knowledge to take the initiative in locating and solving issues.
- People who are intellectually enthusiastic about a variety of systems and customs, and who wish to contribute to building a better society.
- People who wish to joint and integrate the latest knowledge and take on the challenge of the creation of new science that contribute to the future.



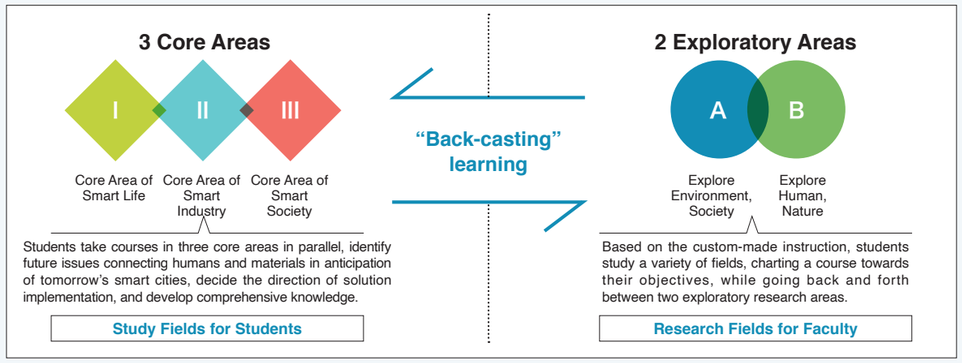
1 Learn Flexibly!

Acquire specialized knowledge, ranging from basic to practical, in the transdisciplinary field

- Students learn the latest knowledge and technologie according to their interest ,deeply and widely in the well-balanced transdisciplinary academic fields.
- Students deep dive into their own "theme" by learning back and forth between 3 core areas and 2 exploratory areas.

[Core areas x Exploratory areas]

The curriculum systematically allows students to learn cutting-edge contents while also acquiring the fundamentals.



2 Learn co-creation with society and practical skills through various Project Based Learning opportunities.

- Students learn co-creation with society through Practical [JISSEN] & Disciplinary [TANREN] Courses.
- Students use their specialized knowledge and creativity to co-create future science with society.
- By studying the concepts of Smart Region, students will promote the balancing of diversity and unity, and help increase gross production from Hokuriku region.
- Students engage in smart city development with comprehensive industrial DX-oriented approaches that leverage various smart technologies.

[Acquiring coherent and practical knowledge in anticipation of future communities and industries]

Practical [JISSEN] Courses	Disciplinary [TANREN] Courses
· Industrial DX/ PBL project · Math, Data Science, practical AI · Hokuriku Revitalization & Sociology · Data-driven society and Industry · Entrepreneurship Seminar, etc.	· Smart technology project · Math, Data Science, practical AI project · Hokuriku Industrial internship · Study abroad programs · International internship programs, etc.

3 Think digitally!

Utilize valuable future smart technology to shape industrial development in all sectors

- Students will endeavor to drive future digital expansion, seeking to tap into the synergy of information, academia, and industry.
- Utilizing social resources, issues, and knowledge, students will take a multifaceted view of thinking, ideas, and practices, and learn about economic revitalization in a digital green society, industrial creation and promotion, and future science.
- Students will learn how to implement solutions on a platform that originated in Kanazawa City, Ishikawa Prefecture.
- Students will become IT talent who promote the use of ICT in agriculture, forestry, fisheries, and next-generation healthcare.

[Future knowledge created by Smart Technology and Innovation]

By studying in the School of Smart Technology and Innovation, students will utilize comprehensive knowledge and XR technology integrating virtuality and reality to create future science in anticipation of smart life, smart industry, and smart society.

Curriculum Map

Features of School of Smart Technology and Innovation

[The 6th Science and Technology Basic Plan (March 2021)]

In order to embody and bring the vision of a future society (Society 5.0) into reality, Japan needs ① transforation into a sustainable and resilient society by fusing cyberspace and physical space, ② creation of intelligence in designing, becoming a source of value creation, and ③ human resouce development for building a new society

[Basic Act on Science, Technology and Innovation (April 2021)]

Promotion of humanities and social science and creation of innovation were added to subject of the law. This amendment does not only promote science and technology, but also enables the policy to reach comprehensive understanding of human and societal issues and problem solution by the convergence knowledge which merges the intelligence of humanities and social science for creating social values and the intelligence of natural science.

Based on the recommendations of the government, we will systematically conduct transdisciplinary and entrepreneurship education to develop new Smart Technology and Innovation

[Specialized Education Map]

Thorough study guidance by increasing the number of advisors

A customized learning plan is created by monitoring the learning progress and the future vision of each student.

Curriculum emphasizing problem-identifying-and-solving models

Students take a systematic course of study, from searching for problems and applying solution to society.

Practical education in a diverse environment

Using a variety of entrance examination systems, we create a diverse environment that includes international students and adults

Fundamental [KIBAN] Guidance

GS Courses for Undergraduates

Courses required to learn specialized skills common to the college

GS English Language Courses for Undergraduates

Students are required to take these courses to improve their practical English proficiency

Learning Plan

Study guidance concerning ways to take Fundamental [KIBAN] Courses

Transdisciplinary [YUGO] Guidance

Fundamental [KIBAN] Courses

Learn the basics of smart technology

Students can learn the basics of science and technology required for intellectual progress, and gain the latest multifaced insights on future issues

Practical [JISSEN] Courses

In order to foster entrepreneurship with a view to social implementation, courses are systematically arranged for acquiring skills and creativity.

Learning Plan

Study guidance from "Academic Knowledge [GAKUCHI] Courses" to "Disciplinary [TANREN] Courses"

Exploring [TANKYU] Guidance

Smart Life | Smart Industry | Smart Society

Academic Knowledge [GAKUCHI] Courses

Learning three core areas back and forth

Placing one core area as the main one, students learn the other core areas back and forth.

Students engage in group work to explore issues through co-creation with other people with diverse backgrounds, such as international students and working adults.

System for increasing the number of academic supervisors

Disciplinary [TANREN] Courses

7 courses available, 4 courses required

Refining practical skills through industrial seminars and projects

Establishing [KAKURITSU] Guidance

Establishment [KAKURITSU] Courses

Graduation Thesis Research / Graduation Thesis Seminar/ Qualifying Examinations

Students learn technology and innovation mindful of smart city implementation

Become a future technology innovator with integrated expertise!

[School of Smart Technology and Innovation : Academic achievement attained at graduation]

- Ability to learn and understand the latest multifaced insights to innovate future science
- Ability to understand future issues, gather and analyze diverse information about people, things and matters.
- Ability to think logically for solving challenges and social implementation
- Ability to communicate actively in the international community with expertise in languages and other cultures in order to fulfill one's mission
- Ability to positively and actively take on challenges, be creative, and take action, with a passion for smart innovation.

[Degree Awarded]

Bachelor of Arts and Sciences

A degree awarded only by this college in our university, which shows that students have learned transdisciplinary fields in an integrated manner.

Curriculum

With engineering and sociology as a main background students learn the latest knowledge, science and technology in a wide range and depth through a layered curriculum to develop smart city.

Studies in Liberal Arts and Sciences — 36 credits or more

- Introductory Courses to Academic Studies
- GS General Education Courses
- GS Language Courses
- Natural Sciences and Mathematics Courses
- Elective Courses

Studies in Specialized Fields — 88 credits or more

GS Courses for Undergraduates — 6 credits

Academic Skills
Introduction and Practicum for Mathematical Data Science
Presentation and Debate
Design Thinking
Introduction to Innovation

GS English Language Courses for Undergraduates — 2 credits

Practical International English
Interaction
Reading and Discussion
Current Issues and Academic English
English for STEM
Presentation
Science and Society

Specialized Basic Courses

Practical [JISSEN] courses — 13 credits

Introduction to Entrepreneurship
Seminar of Digital Transformation and Project Based Learning in Industry I
Mathematical Science Exploration
Seminar of Smart Device
Programming Skills
Practical Approach for Programming Skills
Entrepreneurship Seminar I
Seminar of Digital Transformation and Project Based Learning in Industry II
Seminar of Data Analysis
Hokuriku Regional Revitalization and Sociology
Fundamentals of Website Design
Application Development
Entrepreneurship Seminar II
Social Survey
Social Issues seen in Regional Revitalization
Practical Approach for Mathematics, Data Science, and AI
Data Driven Society and Industry

Fundamental [KIBAN] Courses — 19 credits

Introduction to Technology
Smart Creative Chemistry and Biology
Marketing
Social Change and Labor Productivity
Global Problems and Technology Trends
Financial Engineering
Introduction to Mathematical Behavior Model
Consumer Life Theory
Innovation Management
Introduction to Finance
Technological Society and Ethics
Hokuriku Region Technology Management Theory
Future Energy Creation
Introduction to SDGs
Applied Information Science
Smart Systems and Control
Agriculture, Forestry and Fisheries / Manufacturing Industry in Hokuriku Region
Robot Innovation
Introduction to FinTech and Advanced Business
Sociology of AI and Future
Super Smart City and Society 5.0
IoT Technology
Optimization in Society and Engineering
Cultures in Urban and Rural Areas in Hokuriku Region
Computers and Digital Circuit

Specialized Courses

Academic Knowledge [GAKUCHI] Courses — 26 credits

Core Area of Smart Life

Advanced Medicine
Human Augmentation and Life
Lifestyle Design
Life Behaviors and Activities
Health Sports Nutrition
AI/IoT Health and Welfare
Future of Medical Science
Community Residential Space Design
Hyper-Aged Society and Science Technology
Future-oriented Healthcare System
Smart Wellness
Brain-machine Interface
QOL and Well-being
Human Interface
Regional Comprehensive Care and Revitalization
Ergonomics
Regulatory Science
Health Tech

Core Area of Smart Industry

Smart Industry Theory
Image Recognition and Machine Learning
Statistical Learning Theory
Advanced Smart Systems and Control
Industry and Universal Design
Energy Harvesting Technology
Consumer Behavior and Society
Smart Sensing
Digital Production Engineering
Smart Funds and Advanced Business
Augmented Reality Space Design
Computers and Electronic Circuit
Practical Data Science
Carbon Neutral Technology
Intellectual Property Law
Autonomous Robot
Next-generation Information Communication
Producer Social Responsibility

Core Area of Smart Society

Practical Approach for SDGs
Web Content and Review Analysis
Smart Mobility and Autonomous Driving Technology
Evidence-Based Policy Theory
Social Consensus Building Theory
Smart Infrastructure Management
Practical Smart City Theory
Digital Economy and Regional Expansion
Urban Transportation Planning
Digital Twin and Crisis Management
Low-Carbon Society
Network Mechanism Design
National Resilience
Urban/Regional Engineering
Social System Engineering
Social Innovation
Smart Supply Chain
Future Design

Disciplinary [TANREN] Courses — 4 credits

Hokuriku Region Industry Internship programs I
Project Based Learning in Smart Technology and Innovation II
Training for Mathematics, Data Science, and AI
Hokuriku Region Industry Internship programs II
Study Abroad Programs
Project Based Learning in Smart Technology and Innovation I
International Internship Programs

Establishment [KAKURITSU] Courses — 8 credits

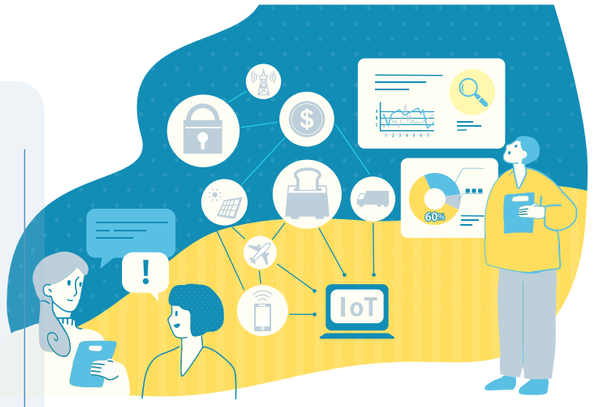
Graduation Thesis Research
Graduation Thesis Seminar
Qualifying Examination

Elective Frame — 10 credits or more

【Among the studies in specialized Fields】

Q Where on campus do College of Transdisciplinary Sciences for Innovation students learn?

A Each year of study, the main learning area on campus changes. First-year students are mostly around general education buildings since they take general education courses. From the second year onward, they engage in various activities in teachers' rooms or project seminar rooms located in Natural Science and Technology Hall 2 in the southern area of Kakuma Campus or in the Incubation Laboratories in the central area.



Q Can I find my dream for the future at this college, although I have not conceived it yet?

A This college provides custom-made guidance for course registration and applies a back-casting approach to learning. You can choose the subjects that you need now based on your vision for your future self. Not having an exact dream at admission is not a problem because the first-year curriculum includes a course in which students design their career paths with the teaching staff's support. After moving into the transdisciplinary curriculum, you can design your future as you acquire diverse specialized knowledge and gain experience from practical projects.

Q In which year do students participate in internship programs or study abroad?

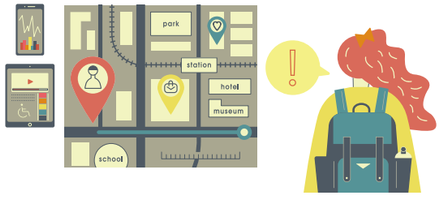
A The curriculum offers internship programs in the second year (third year for Smart Technology and Innovation) and study abroad-related subjects in the third year.

Q Does this college provide any qualifications to graduates?

A No, it doesn't.
If you wish to acquire specific qualifications such as those for doctors, nurses, or high school teachers (including taking the qualifying exams), you are recommended to enter the school that specifically serves your wishes.

Q To which countries can I go on through the overseas internship program?

A We offer internship programs in various countries, including New Zealand, Australia, Vietnam, and Thailand. You can choose whichever country you prefer. We also recommend our students to seek out and participate in other internship opportunities offered outside the college's curriculum.



Q Can I take courses in other colleges and schools?

A You can take them with the approval of your course teachers. Up to 10 credits in such courses can be counted as elective credits for fulfilling graduation requirements. You can also freely create a transdisciplinary path for yourself by building a minor from courses outside your major that interest you. You will earn a certificate of completion of the minor if you earn the required credits before graduation.

Q This college aims to foster entrepreneurship. Does that mean I have to start a business?

A Starting a business is one way to create value and solve problems for society. However, we do not expect every student to do so. We seek to foster human resources who learn the methods and mindset for taking action to solve problems, and who can boldly take on the challenge of identifying and solving issues affecting global and local communities.

Q What kinds of subjects and activities are offered by the School of Entrepreneurial and Innovation Studies?

A Every year we offer courses mainly focusing on entrepreneurship. We also have practical courses in which students visit various companies and start up a new business. You can choose your own courses that help you to achieve your objectives, taking advantage of the benefits of transdisciplinary education. Since this college allows you to build and implement your own project, it can be considered one that offers a wide range of freedom.

Q What are the differences between the School of Tourism Sciences and Design and the School of Regional Development Studies?

A In the School of Regional Development Studies, students pursue learning tailored to their interests. For the major, Regional Issues, they select one course among Natural Coexistence, Regional Coworking, and Coexisting Society. They also choose one of the Regional Development subjects, either Public Policy or Regional Management. After taking those courses, students start researching and implementing projects for their future career.On the other hand, the School of Tourism Sciences and Design offers a wide range of subjects covering the humanities, social sciences, and natural sciences, and consequently provides students with the opportunity to experience a broader array of fields that interest them. In addition, students can build their own curriculum that enables them to become the person they aspire to be. Under this approach, both students with a specific vision for themselves and those without can accept and enhance one another's individuality.

Q What are the differences between the School of Smart Technology and Innovation and the School of Frontier Engineering or Electrical, Information and Communication Engineering?

A The School of Frontier Engineering or Electrical, Information and Communication Engineering aims to develop talent who work in digital technology or system development. On the other hand, the School of Smart Technology and Innovation fosters human resources who focus on specific health, industrial, or social issues and solve those issues with the power of digital technology.

Q What are the differences between the School of Tourism Sciences and Design and other faculties of tourism at other universities?

A This school fosters students who study a wider range of subjects such as mathematics, data analysis, design, and business skills so that they can create new value in tourism. Each student can choose subjects that interest them and receive full learning support from the teaching staff.

Urban Project center

Kanazawa City lends laboratories in the Kanazawa Mirai no Machi Creation Center to serve as our in-city center for the implementation of value creation projects that contribute to local communities and industries.

金沢未来のまち創造館
KANAZAWA MIRAI NO MACHI CREATION CENTER

[Photo provided by Kanazawa City]