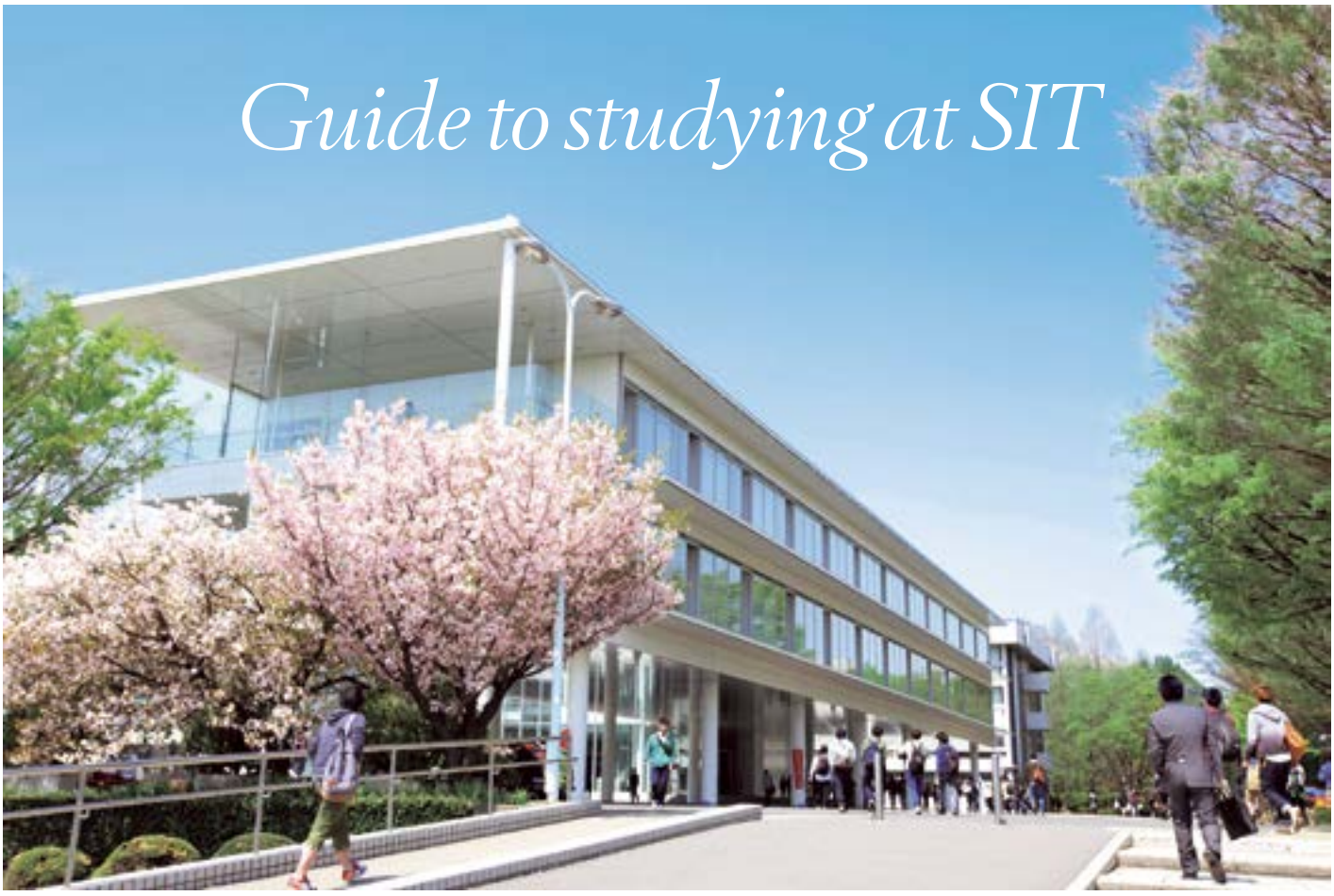
SIT
SHIBAURA
INSTITUTE OF
TECHNOLOGY






Guide to studying at SIT



TOP GLOBAL
UNIVERSITY JAPAN

Learn from the world, contribute to the world

Shibaura Institute of Technology has steadfastly continued the philosophy of focusing on practical learning in the education and training of engineers and technicians ever since its predecessor, Tokyo Higher School of Industry and Commerce, was established in 1927. With the globalization of manufacturing, Shibaura Institute of Technology provides a practical learning framework built on collaborations with corporations, universities and regional communities both domestically and internationally.
By having young people study together in an environment where they can thrive on the stimulations brought by people from around the globe, we aim to develop science and technology experts that can contribute to the world.

1 Diversity

Developing engineers ready to play their parts in the global society

By 2023, Shibaura Institute of Technology has set the numeric goals to have 30% of all students to be from overseas and to have 60% of academic staff to have international backgrounds. With daily interactions with colleagues that have different backgrounds, we provide plenty of opportunities to discover new values and knowledge. By promoting diversity, Shibaura Institute of Technology ensures you will have the enticing environment and programs that will realize your potential.

TOPICS

The Shibaura Model: Developing personnel in the science and technology fields

SIT has implemented the PDCA (plan, do, check, act) cycle to ensure we understand the level of achievement and to promote the desire to learn, which in turn helps our students gain the knowledge they need to become valuable personnel in the science and technology fields. Academic staff and students work together to achieve higher transparency in faculty-staff-student partnership which in turn raises the overall quality of education. Furthermore, the Global Technology Initiative (GTI) consortium made up of tertiary institutions and corporations has been put together to promote research collaboration between institutions, industrial collaboration between corporations and universities, active planning, and the mutual exchange of academic staff.
As a further addition to the institutional reforms at universities, we have dubbed the programs developing personnel for science and technology the "Shibaura model", which we will share with other institutions, both inside and outside of Japan.

- High-quality education system built through the cooperative efforts of academic staff and students
- University system we aim to be in the top 10 in Asian technical institutes
- GTI structure that encourages active planning

2
Practice

Practicality honed through cooperation
between industry, academia, and government

Shibaura Institute of Technology actively promotes collaborative projects in which they participate along with other academic institutions, corporations and municipalities. By considering the solutions to problems put to them by corporations and proving them, they can develop the practical abilities that can fulfill the needs of society. As a result, SIT has a success rate of 96.7% of students being employed, with 66.8% of these being employed by corporations. SIT will continue to promote the development of practically educated human resources by enhancing collaborative ventures with industry, academia, and government.

3
Advance

Research themes of high quality
that have been evaluated publicly

Shibaura Institute of Technology has over 200 laboratories which perform a variety of advanced research. The SIT Research Laboratory is particularly known for its innovations. A number of research centers that have introduced the nation's competitive research funds provided by the Ministry of Education, Culture, Sports, Science and Technology and the Ministry of Economy, Trade and Industry are promoting these activities. These research projects are recognized publicly as being absolutely necessary for the development of society and their application in society is anticipated. In an environment with all the latest research facilities in place, SIT aims to be a new leader in providing engineering education in research and development and global human resourses.

TOPICS

International Students at SIT (Academic year 2015)

■ Number of Students

8,389 Total Enrollment

■ International Enrollment

198	Total Enrollment
70	Latin America
66	South East Asia
38	East Asia
15	Europe & Africa
9	Middle East

Academics Overview

Mechanics

	Engineering	Engineering	Systems Engineering and Science
College	Engineering	Engineering	Systems Engineering and Science
Department	Mechanical Engineering JABEE certified	Engineering Science and Mechanics JABEE certified	Machinery and Control Systems
Campus	Year 1 and 2 at Omiya Year 3 and 4 at Toyosu	Year 1 and 2 at Omiya Year 3 and 4 at Toyosu	Year 1–4 at Omiya
Features of Fields of Study/ Research Areas	**Investigating the basics of manufacturing things such as cars and robots** This general field could be described as the foundations of engineering. Research covers the manufacturing of everything from cars and robots to equipment used in the energy, aerospace, medical care, and social welfare industries. Basic science is emphasized while making an effort to include related engineering fields in the course mix and to achieve harmony with people and society.	**Creating the functions that move society** The aim of this course's curriculum and research activities is the conception and creation of new functions that are in harmony with people and the environment. Research with a basis in mechanical engineering spans five fields—energy and the environment, materials sciences, mechanical controls, manufacturing and processing processes and applied micro- and nano-technologies—also incorporating various branches of the fields of engineering, science and medicine.	**Creating the manufacturing and human resources of the future** Studies of the basics for conducting analysis, development, design and manufacturing of mechanical control systems for highperformance robots, next-generation vehicles, clean energy power sources and other things that sustain modern society and will be indispensable to nationbuilding from here on are go hand in hand with systems engineering principles and theories related to optimization of the whole from broad perspectives that include people, the environment and society.

Life Sciences

	Systems Engineering and Science	Systems Engineering and Science
College	Systems Engineering and Science	Systems Engineering and Science
Department	Bioscience and Engineering Biomedical Engineering Course	Bioscience and Engineering Bioscience Course
Campus	Year 1–4 at Omiya	Year 1–4 at Omiya
Features of Fields of Study/ Research Areas	**Developing devices and systems for life support and recovery of functions** With a basis in mechatronics, which combines mechanical engineering with electrical and electronic engineering, the Biomedical Engineering Course involves studies related to efforts to develop and methods of manufacturing robots that provide support in welfare and medical care, devices used in rehabilitation, artificial organs and other equipment for life support and recovery of functions as well as various devices and support systems to help older people lead healthy lives.	**Elucidating the mysteries of life related to aging** In the bioscience course, the mechanisms of genetics and aging are elucidated through biotechnology, yielding solutions. Research efforts are directed toward the needs of an aging society, seeking out the causes of dementia due to aging and developing means of preventing it, for example, so that everyone can lead fulfilling lives in their later years.

Electricity, Electronics and Information

	Engineering	Systems Engineering and Science
College	Engineering	Systems Engineering and Science
Department	Information Science and Engineering	Electronic Information Systems
Campus	Year 1 and 2 at Omiya Year 3 and 4 at Toyosu	Year 1–4 at Omiya
Features of Fields of Study/ Research Areas	**Technologies that employ computers to enrich human society and lifestyles** Systematic studies of the basics of and applications in the respective fields of software, hardware, database and network and human communications technologies provide an understanding of technology's fundamental principles, fostering creativity and the ability to develop and find applications for those technologies.	**Creating an even richer information society through innovation and systems approaches** Students who aspire to be 21st-century engineers able to envision the systems and innovations needed to create an advanced information society worldwide acquire specialized expertise in a wide range of fields including software, media, networks and hardware. They also learn systems approaches and creativity through hands-on experiments and exercises.

Construction

	Engineering	Engineering	Engineering
College	Engineering	Engineering	Engineering
Department	Civil Engineering Social Infrastructure Course	Civil Engineering Social System Design Course	Architecture
Campus	Year 1 and 2 at Omiya Year 3 and 4 at Toyosu	Year 1 and 2 at Omiya Year 3 and 4 at Toyosu	Year 1 and 2 at Omiya Year 3 and 4 at Toyosu
Features of Fields of Study/ Research Areas	**Endowing students with the strong technical skills needed to practice engineering that serves the public** Comprehensive studies in four areas—planning, the environment, information and mechanics and disaster preparedness—provide an immediate sense of civil engineering's role in urban settings. These programs endow students with the strong technical skills needed to practice engineering that serves the public such as providing security in an increasingly aging society with fewer children, identifying urban issues and transmitting data from cities.	**Endowing students with the sense of balance needed to practice engineering that serves the public** Substantial fieldwork and courses focused on three areas—planning, information and the environment—cultivate practical capabilities and train human resources so that they aspire to a higher level of technical skills and are endowed with the ability to actively promote a shift to all-around engineering in pursuit of a satisfying career.	**Broad, in-depth training to create the best architecture, communities and cities** Wide-ranging training not overly weighted toward engineering and technology that also considers the global environment fosters the ability to grasp matters accurately and ponder strategies for the future from architecture to communities and cities for sustainable growth in our way of life.

This overview introduces the 17 departments in 3 colleges at Shibaura Institute of Technology, listing them by the 7 academic areas.

Materials and Chemistry

Materials Science and Engineering

Engineering

Year 1 and 2 at Omiya
Year 3 and 4 at Toyosu

Research into all the various materials that form the basis for things

The department conducts highly creative research related to themes such as highly functional materials, materials for use in space environments, nanomaterials and condensed matter physics, and advanced materials, handling all sorts of materials, including metals, ceramics, organic materials, and composite materials.

Applied Chemistry

JABEE certified

Engineering

Year 1 and 2 at Omiya
Year 3 and 4 at Toyosu

Applications extend to the fields of new materials,medicines, food products,the environment and chemistry

There are needs for applied chemistry in a number of different industry sectors, including materials for electronic devices, medicines, food products, agriculture, environmental sanitation and effective uses of resources.
Students learn through repeated lectures and experiments in a wide range of fields including inorganic, organic, and physical chemistry, chemical engineering, analytical chemistry, and biochemistry.

Electricity, Electronics and Information

Electrical Engineering

JABEE certified

Engineering

Year 1 and 2 at Omiya
Year 3 and 4 at Toyosu

Wide-ranging electrical technology studies focused on advanced technologies

Studies in a wide spectrum of fields related to electrical technology with energy and controls as the core subjects are conducted.
Research fields are divided into the electricity and energy, systems controls and robotics, and electrical materials and devices clusters, corresponding to industries that are becoming more advanced and high tech.

Electronic Engineering

Engineering

Year 1 and 2 at Omiya
Year 3 and 4 at Toyosu

Learning the fundamentals and the creativity to be able to handle continuing advances in electronics

Electronic engineering is widely used in modern society's infrastructure.
Department of Electronic Engineering studies involve two specialized fields—materials and devices and intelligent information processing circuits— in conformance with Japan Accreditation Board for Engineering Education (JABEE) training programs to develop the ability to respond to continuing advances in electronics as industry and society change.

Communications Engineering

Engineering

Year 1 and 2 at Omiya
Year 3 and 4 at Toyosu

Learning about various means of conveying information, in terms of both hardware and software

Studies involve a good balance of both hardware and software related to the various ways to convey information using communications network technologies, electronics, mobile wireless communications technologies, photonics and information processing technologies (technology related to computers).

Construction

Architecture and Building Engineering

Engineering

Year 1 and 2 at Omiya
Year 3 and 4 at Toyosu

Practical, hands-on studies of architecture from the basics to applications

The basics and applications in five areas—planning, structures, manufacturing, the environment and materials—are studied systematically and in sequence. Fieldwork is emphasized in such programs as the training program to learn architecture abroad, which features tours of European and American buildings, and the architecture and building seminar, in which the realities of architecture are studied in workshops.

Architecture and Environment Systems

Systems Engineering and Science

Year 1–4 at Omiya

Solving problems comprehensively by viewing the environment as a system

Viewing human activities in cities such as architecture as complete systems, the students' objective is to think about problems and their solutions while using communities, areas, countries, the worldwide environment and facilities and residences around them as their subjects. Students acquire specialized skills and practical capabilities.

Mathematical Sciences

Mathematical Sciences

Systems Engineering and Science

Year 1–4 at Omiya

Devising approaches to society's various issues using the mathematical sciences

Mathematical sciences methodologies are effective in resolving the ever more complex issues of the real world. With this in mind, we train students to acquire a firm understanding of math basics and then develop them to play a crucial role in a wide range of scientific and engineering fields through the instruction of applicable skills like simulation technologies and other methods focused on specific issues.

Design

Engineering and Design Architecture and Urban Design Course

Engineering and Design

Year 1 and 2 at Omiya
Year 3 and 4 at Shibaura

Aspiring to create spaces that resonate with the people who use them

The urban spaces architecture creates serve as the subject for studies designed to foster all-around architectural design capabilities and sensibilities. Through the course, we train students to be able to handle the work of urban development and community redevelopment while creating urban living spaces that are safe and environmentally friendly and will appeal to the people who use them.

Engineering and Design Engineering Design Course

Engineering and Design

Year 1 and 2 at Omiya
Year 3 and 4 at Shibaura

Making various products—everything from production materials to finished consumer goods

Mechatronics Systems and Embedded Software Field.
This training produces design engineers who can develop systems controls and embedded software for robots, cars, home appliances and other things.
Manufacturing System Design Field.
This program fosters practical skills to resolve problems through manufacturing system design. Students study manufacturing comprehensively from product design for such industrial goods as cars and household appliances to the actual manufacturing of products.

Engineering and Design Product Design Course

Engineering and Design

Year 1 and 2 at Omiya
Year 3 and 4 at Shibaura

Developing design concepts and turning them into products

Students will develop the ability to improve the appeal of products based on examinations of the entire process from research and planning through design, manufacturing, advertising and sales. After they acquire basic expertise through a broad range of specialized engineering courses, students will study logical design methodologies and processes. Through the program, they will hone their sensibilities and acquire skills to make comprehensive approaches.

Student accommodation

The Global Dormitory at the Omiya campus is a place
where international students and Japanese students can live together
and develop a global perspective.

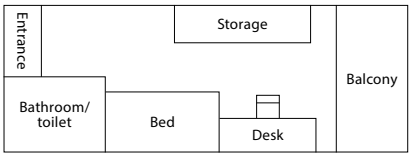
Common room/Shared kitchen

A common room and a shared kitchen is located in the central area of each floor with accommodation (floors 2 to 5). The dormitories are designed to promote mutual understanding among students from different countries, nationalities, religions, and customs.

Overview of the facilities

Building structure: Five story reinforced concrete
Occupancy: Approximately 120 (total of Japanese and overseas students, including 30 females)
Room (individual): 17 m^2 western style
Facilities: Bed, air conditioner, desk, chair, bathroom unit with toilet (heated bidet type), closet, LAN, etc.
Shared facilities, etc.: Shared kitchens and common rooms on each floor, coin washers and driers
Length of occupancy: 2 years
Dormitory fees: 35,000 yen/month (not including meals and utilities)
* One month's dormitory fees taken as a deposit upon entry to the dormitory

Sample: Dormitory room layout



Annual events

The Global Dormitory acts as a community where international and Japanese students can carry out cultural exchange. Events are regularly held for this purpose and offer opportunities to deepen cultural understanding.

APR

Dormitory induction ceremony
and welcome party
for international students

SEP

Disaster drill
(fire drill and outdoor cooking)

OCT

Halloween party

NOV

Exhibition at the Shibaura Festival

DEC

Events for experiencing
Japanese Culture
(End of Year Cleaning,
Rice Cake Making)

The role of the RA

RA (Resident Advisor) helping residents enjoy their campus life

There are one or two graduate students living on each floor of the Global Dormitory as RA (resident advisor) and who are there to offer advice about daily life and study. For example, after the dormitory induction ceremony held in April, new students go to their respective floors with their RA to confirm their understanding of dormitory rules, how to properly use the common facilities, and so on. In an environment where people from different backgrounds and religions are to share their living space, the RA plays an important role in providing overall support so that each and every student can live in the dormitory comfortably.

Campus life

With three campuses in Saitama and Tokyo Bay area, SIT students enjoy many facilities including spacious athletic grounds, good access to public transport and latest research equipment. The Global Dormitory, located next to Omiya campus, is home away from home to both domestic and international students.

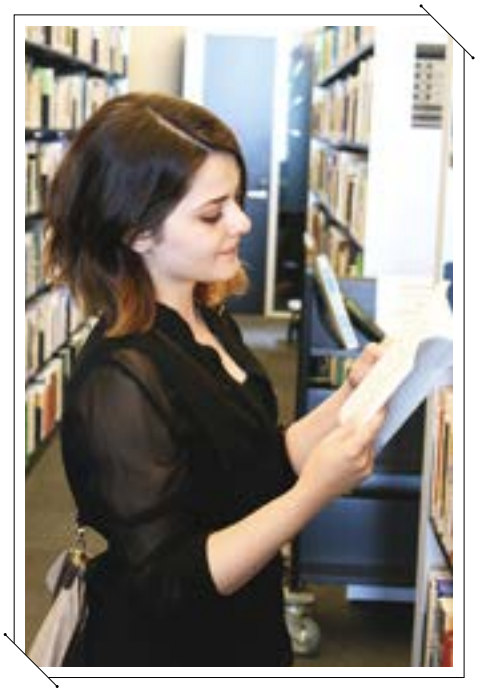
TOPICS

ICP (International Communication Project) providing opportunities to share culture between international students and Japanese students

Students at Shibaura Institute of Technology plan and submit their own project proposals under a system called “Student Projects”. This system provides the students with financial support for their projects and produces a variety of projects every year. One that the international students should watch is the International Communication Project (ICP). This project aims to achieve under-standing between Japan and other nations around the world by sharing the information brought to Shibaura Institute of Technology by the students from all over the globe. It provides opportunities for international students and local students to go on trips together, hold sports carnivals, and plan events that give the international students an opportunityto showcase the cultural assets of their nations.

Voices from our international students

Shibaura Institute of Technology attracts students from all corners of the world.
Here are some comments from international students
about their lives in Shibaura Institute of Technology.



Lorenna Lucia Bastos Bandeira (Brazil)
Department of Mechanical Engineering
Undergraduate Sandwich Program
Federal Institute of Education,
Science and Technology of Espirito Santo, Brazil

What are you studying/learning at SIT, and why?

I wanted to get in touch with another Engineering field academically when I arrived in Japan. I didn't have a proper notion about what kind of field I wanted to specialize in. Then I tried to learn more about technical fields such as control and electrical engineering. I also noticed the importance of welfare, sociology and environment in Japan.

Why did you choose SIT?

I chose SIT because it's a technological university so that I was certain that I could be in touch with many different technological fields. The opportunity of belonging to a lab is also what attracted me. SIT also offers English classes and Japanese language lessons, so that could motivate me to learn the language. On top of that, SIT has a good relationship with international students. SIT has clubs, events and an International office that stimulates interaction between International and Japanese students and we have a lot of support as well.

What have you learned or achieved in SIT?

From now on, I have a better understanding of what I want for my future and I can establish goals when I go back to Brazil. The activities involving international students made me feel integrated with SIT even as a non-degree student. I made a lot of friends, Japanese and international. I learned to respect cultural differences and a lot about Japanese culture, especially their way of dealing with situations.

What are you studying/learning at SIT, and why?

In SIT, I am not only learning things that I am already familiar with; but also my supervisor encourages me to increase my knowledge, which ranges from learning new programming languages to being critical thinkers.

Why did you choose SIT?

"Patience is the key to success" is a wisdom that I always believe in. SIT is an excellent place for achieving my dream as it offers a lot of facilities that support and motivate me to achieve my goal. With SIT, you will always be hungry to learn!

What have you learned or achieved in SIT?

Developing my Master's thesis in SIT, I have improved my knowledge/skills by learning new perspectives with the supervision from professors in my field of research, computer science. Among the valuable knowledge/skills I gained was in C language, network programming and domain name systems, which has enabled me to develop my thesis.

Nader Mohammedadel Shahata (Saudi Arabia)
Doctor's Program, Functional Control Systems
Graduate School of Shibaura Institute of Technology

Programs for International Students

Shibaura Institute of Technology has a wide range of academic and research programs available for international students. SIT's programs for international students vary in duration, credit transfer availability and format so that each student can freely select a program that suits their academic goals best.
Read on to learn more about your options at SIT. We look forward to welcoming you to our campuses.

Undergraduate Sandwich Program

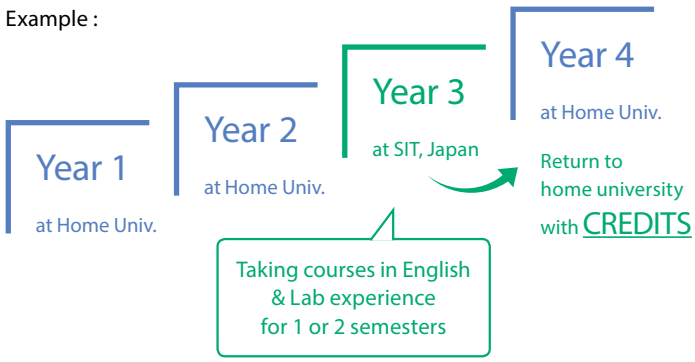
What is a Sandwich Program?

A Sandwich Program is where the student continues to be registered in their home university, while studying for a period of time between six months and a year at Shibaura Institute of Technology.
For example, the student may study for their first two years at their home university, study at the College of Engineering at Shibaura Institute of Technology for the third year, and then complete their studies at their home universities. Students have a wide range of study options, from 17 departments and 3 colleges. Classes are taught in English, and Japanese language lessons are also available.

STEP :

- Enter university in home country
- Enter Japan at some point during the course
- Take classes at SIT for 6 months to a year
- Transfer credits gained at SIT to home university

Example :



Here are some of the benefits you will enjoy as international students on a Sandwich Program :

- Classes taught in English in all 17 departments
- Intra-curricular Japanese lessons with credits
- Transferable credits
- Participating in lab research studies in fields relevant to your majors

Contact: Division of Global Initiatives
global-admission@ow.shibaura-it.ac.jp

Application Schedule :

		Spring Semester				
	Entry	APR	MAY	JUN	JUL	AUG
Undergraduate Sandwich Program	Spring					
	Fall	Application		Screening	Result	Travel Preparation
Research Student Program	Spring					
	Fall	Preliminary Application		Application	Result	Travel Preparation
Master's Program	Spring			Preliminary Application		
	Fall	Preliminary Application		Application	Screening	Result / Travel Preparation
Doctor's Program	Spring					
	Fall	Preliminary Application			Application	

Graduate Program (Master's/Doctor's)

We provide two graduate programs called "Graduate School of Engineering and Science" and "Graduate School of Engineering Management (MOT)".
At the Graduate School of Engineering and Science, you will pursue science and technology as a professional in specialized fields. At the MOT, you will study technology-management skills.
The main purpose of the Graduate School of Engineering and Science is to deepen studies at each department.
Meanwhile, the MOT aims to cultivate the human resources required by companies in the future, by combining technology with management.
We are training the next-generation of engineers at these graduate courses.

Graduate School of Engineering and Science

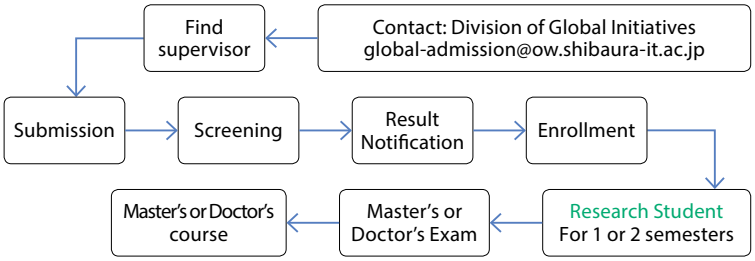
Program	Course
Master's Program	Electrical Engineering and computer science
	Materials Science and Engineering
	Applied Chemistry
	Mechanical Engineering
	Architecture and Civil Engineering
	Systems Engineering and Science
Doctor's Program	Regional Enviroment Systems
	Functional Control Systems

Graduate School of Engineering Management(MOT)

Master's Program	Professional Degree's Course

Research Student Program

This is for students who wish to study at SIT as a research student to conduct a research activity for under the designated supervisor in order to prepare to enroll Master's or Doctor's program.



Requirements for Graduate and Research Student's Program

Application documents :

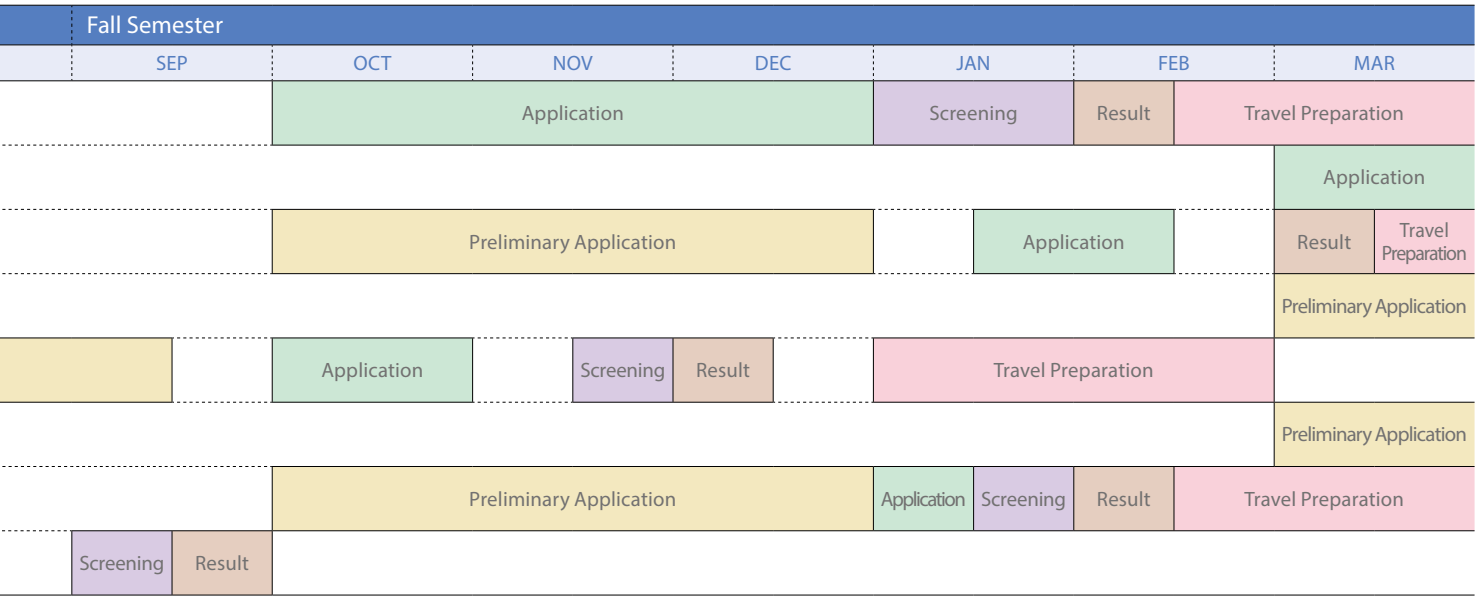
1. CV
2. Abstract of Master's thesis (if completed Master's course)
3. Research Plan
4. Certificate of Graduation
5. Academic Records, if any.

Eligibility :

Participants
- must be fluent in English or Japanese and physically and mentally healthy.
- must finish or will finish 16 years of school education or equivalent.

Contact:

For Graduate Program: daiin-jimu@ow.shibaura-it.ac.jp
For Research Student's Program: global-admission@ow.shibaura-it.ac.jp



Locations

All three campuses are in the greater Tokyo area, with easy access to the world. They are in the perfect locations to experience Japanese culture.

OMIYA
campus

SHIBAURA
campus

TOYOSU
campus

Division of Global Initiatives

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