Kyushu Institute of Technology 2018-2019





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MSSC (Malaysia Super Satellite Campus)

Study Abroad & Work Abroad

International Student Enrollment

Our Partners



Extending the Frontiers of Engineering: Educating the Next Generation of Talented Engineers

Meiji College of Technology, a precursor to Kyushu Institute of Technology (Kyutech), was founded by Mr. Keiichiro Yasukawa, a noted businessman of the time. In more than 100 years since its foundation, Kyutech has produced over 60,000 talented engineers by practicing its founding principle of "instilling a deep knowledge of science and engineering in high caliber students." Kyutech has been contributing to knowledge creation that will lead to academic progress, enhanced competitiveness in industry and regional development by making the most of its education and research capabilities.

Progress in science and technology in recent years is remarkable, filled with discoveries and inventions leading to the creation of innumerable technologies. These achievements have spread through society and become part of people's lives at an accelerating pace. For example, the Internet used to be just an experimental low-speed communication line in 1969 but has now become the network which connects people all over the world. This is one way that science and technology are closely linked with people's lives, and the importance of its role is increasing.

In this context, Kyutech has been producing the engineers who provide solutions to the complicated challenges in the rapidly changing society. Kyutech focuses on not only the education of knowledge and skills, but also notices the essential qualities for global engineers: acceptance of diverse cultures, communication skills, self-learning skills, problem finding and solution skills, and engineering design skills. To cultivate these qualities, Kyutech offers a variety of study programs and the best learning environment.

In addition, we believe university is a place for knowledge creation which unlocks the future. As knowledge creation, research activities have two aspects of value; one is for the development of academic studies and the other is for the development of society. Kyutech has established 10 strategic research centers for the study of environment, energy, space, LSI, networks, robots and more in order to ensure a diverse array of research activities, and to actively promote industrial-academia collaborations.

Kyutech always seeks opportunities for information exchange, dialogue and collaboration with the public to introduce our various education and research activities. We aim to build up relationships and networks, to enhance the quality of education and research, and to realize a campus which encourages people to join in the pursuit of knowledge.

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History

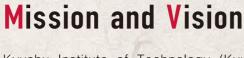
1907	The Meiji College of Technology
1907	was founded as a private institution

- 1909 The Meiji College of Technology started
- The Meiji College of Technology became a 4-year course national institution
- The Meiji College of Technology
- The Graduate School of Computer and Systems Engineering was established
- The Faculty of Computer Science and Systems Engineering was established
- A doctoral program was launched in the Graduate School of Engineering
- The Graduate School of Computer Science and Systems Engineering was established
- A doctoral program was launched in the 1993 Graduate School of Computer Science
- The Graduate School of Life Science and Systems Engineering was established
- Kyushu Institute of Technology was incorporated as a National Universit
- 2009 The school's 100th anniversary
- MSSC (Malaysia Super Satellite Campus) was established
- 2014 Reorganization of the 3 graduate schools
- Reorganization of the 2 undergraduate

Kyutech at a Glance 🚣







Kyushu Institute of Technology (Kyutech) was originally founded as a private institution called the Meiji College of Technology in 1907.

Mr. Keiichiro Yasukawa, the owner of a successful mining business, contributed a big amount of his private fortune to establish the College with the aspiration for strengthening Japan's industry. His enthusiasm motivated Dr. Kenjiro Yamakawa who was the first physicist in Japan and the President of Tokyo Imperial University, to cooperate with him in drawing the grand design of the College.

Dr. Yamakawa's vision for the College has been succeeded by Kyutech today; educating gentlemen with excellent knowledge and skills in technology, which means developing engineers not only with technological expertise but also with uprightness and high moral sense. With this vision, Kyutech produced talented engineers who contribute to industrial development in Japan for more than 100 years of its history, and it continues to be our mission for the future.



Keiichiro Yasukawa (1849 - 1934)



Dr.Kenjiro Yamakawa (1854-1931)

Tobata campus lizuka campus Wakamatsu campus Campuses





4,117 undergraduate students 1,230 master's students **302 doctoral students**

The number of students

International students from countries and regions



m 430

Administrative staff Faculty members



About

of undergraduate students go to graduate school





As of May 2018

Strength and Achievements

evenue from joint research with companies /industries



Ranked No. Z

among small-mid sized 48 universities (300~500 researchers)



Patent Income per researcher No. 4 in Japan





All the departments of our undergraduate schools have been accredited by

JABFF

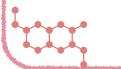


JABEE: Japan Accreditation Board for Engineering Education, the organization that accredits engineering education programs. JABEE holds the status of full signatory of the Washington Accord, which is an international agreement among bodies responsible for accrediting engineering degree. Other signatories include the United States, Canada, and the United Kingdom.



Times Higher Education
Japan University
Rankings 2018

Ranked No. 24





mployability

99.3%



44.8%



Strong alliance with Kyutech alumni



Among these successful graduates, about 46% joined the "Listed Companies" such as Honda, Mitsubishi, Hitachi, Nissan, NEC, TOYOTA, Panasonic, Suzuki, Kawasaki, Canon, etc.





"Meisen-kai" is one of the largest alumni associations in Japan with more than 38,000 members, 48 branches, and 11 committees.

Meisen-kai collaborates with Kyutech to plan and organize career development seminars for Kyutech students. In the seminars, Kyutech alumni working actively in Japan's leading companies are invited as lecturers and they share their expertise and experience with the students for their career development and job search.







Number of **venture companies** established by university research outcomes

Ranked No. 15 in Japan

yenture companies from Kyutech as of 2017

200 projects as of March 2017 Joint Research Projects with companies / industries



Ranked No. 28 in Japan

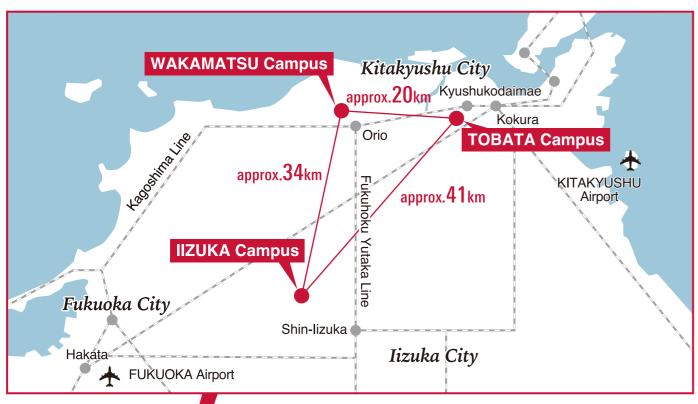






Kyushu Institute of Technology (Kyutech) has 3 campuses and they are all located in Fukuoka prefecture, northern part of Kyushu island of Japan.

Each campus has its characteristics and strong ties with the local area.







Tobata campus



School of EngineeringGraduate School of Engineering

Tobata campus is Kyutech's main campus since it was first founded as a private technological school in the Tobata area of Kitakyushu city.

Kitakyushu city led Japan's rapid economic growth by its heavy industries and became one of the four major industrial zones in Japan. But in return for the prosperity, Kitakyushu gained a bad reputation as a polluted city.

After overcoming the serious air and water pollution, Kitakyushu city is now attracting international attention for its successful restoration of the environment, and the technology for ecology and sustainable society.

lizuka campus



- School of Computer Science and Systems Engineering
- Graduate School of Computer Science and Systems Engineering

The lizuka area used to enjoy the prosperity brought by its coal mining industry, which supported the government-owned steel plant established in 1901 in Kitakyushu city and helped with the industrialization of Japan. But because of the energy transition from the coal to oil, the coal mines were closed and many people left lizuka in 1970's. To get back on its feet, lizuka city started to invite education and research institutions to reboot the area. Kyutech's School of Computer Science and Systems Engineering was established in lizuka in 1986, and gradually other research institutions and businesses in the IT industry gathered in this area. In 2002, lizuka city set up "e-ZUKA Tri-Valley Plan" to support venture businesses together with the Fukuoka prefectural government and it yielded IT venture businesses by industry-academia-government collaboration.

Wakamatsu campus



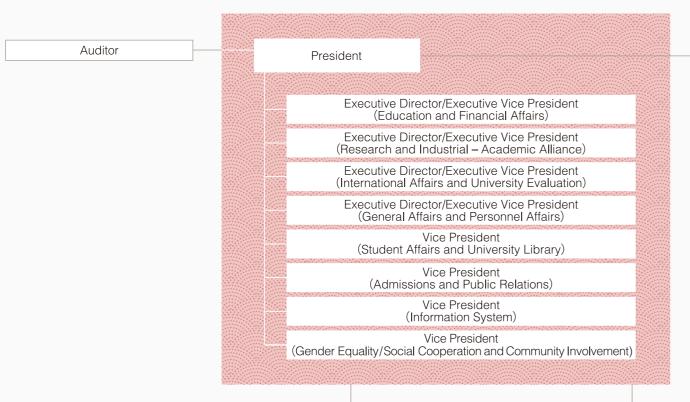
Graduate School of Life Science and Systems Engineering

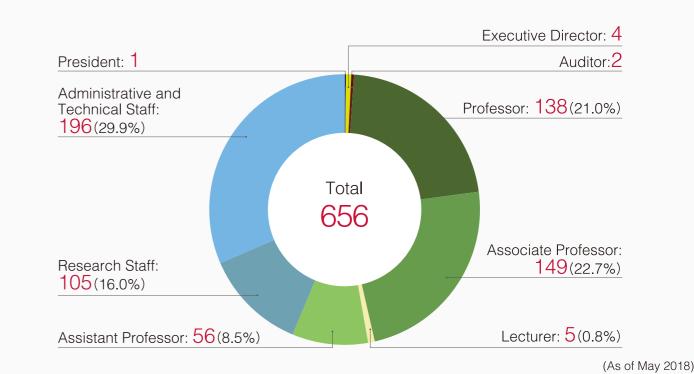
Wakamatsu campus is located in Kitakyushu Science and Research Park (KSRP), which was established as a core academic research center in Asia. It consists of 4 universities including Kyutech and multiple research institutions and R&D companies, and aims to create new industry with the knowledge and technology developed in those institutions to revitalize Kitakyushu as an industrial city. The 4 universities share their visions in education and research and have active collaborations such as joint research, credit transfer, and joint graduate schools. And a good number of venture businesses were born in KSRP by utilizing research seeds of these universities.

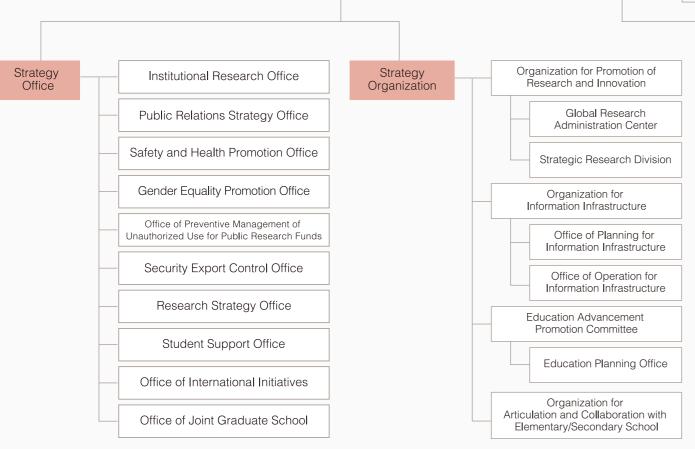
Management and Administration

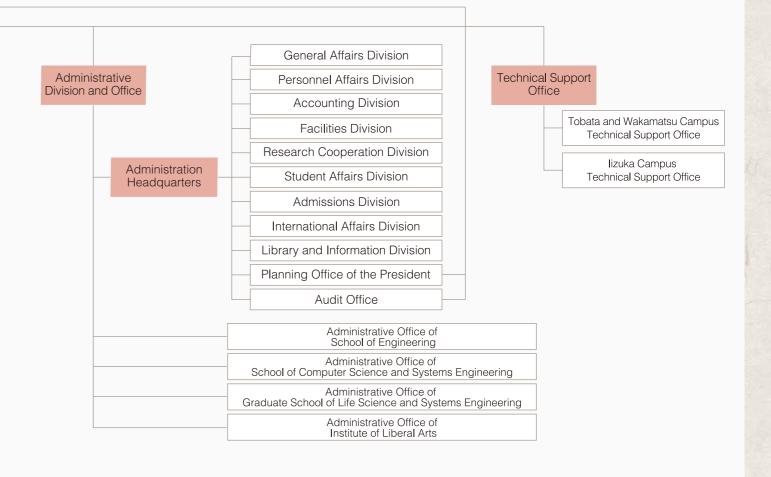
Faculty and Staff











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Enrollment (As of May 2018)

		Undergraduates	Graduate Students	Total
Total Enrollment	Number of Students	4,117	1,532	5,649
	Number of International Students *Included in total number	27 (0.7%)	230 (15.0%)	257 (4.5%)

School of Engineering	Fre	shman	Sop	homore	Jı	unior	Se	enior	Т	otal
Correct of Engineering		International Students		International Students		International Students		International Students		International Students
Engineering Group 1	80								80	
Engineering Group 2	168	1							168	1
Engineering Group 3	144	2							144	2
Engineering Group 4	80								80	
Engineering Group 5	68								68	
Department of Civil Engineering and Architecture			89		97	1	85	1	271	2
Department of Mechanical and Control Engineering			166	1	165	4	143	1	474	6
Department of Electrical and Electronic Engineering			143	1	151		128		422	1
Department of Applied Chemistry			73	2	88	1	65		226	3
Department of Materials Science and Engineering			65		72		56		193	
Department of Integrated System Engineering*1			54		55		51		160	
Total	540	3	590	4	628	6	528	2	2286	15

School of Computer Science	Freshman		Sopl	nomore	J	unior	Senior		To	otal
and Systems Engineering		International Students		International Students		International Students		International Students		International Students
Informatics Group 1	181								181	
Informatics Group 2	114	1							114	1
Informatics Group 3	126								126	
Department of Artificial Intelligence			100	1	111		86		297	1
Department of Computer Science and Electronics*1			108	1	105	1	97	2	310	4
Department of Systems Design and Informatics*1			91	1	97		89	1	277	2
Department of Mechanical Information Science and Technology*1			84	1	95	2	98		277	3
Department of Bioscience and Bioinformatics			80	1	83		86		249	1
Total	421	1	463	5	491	3	456	3	1831	12

^{*1:} The name of department before reorganization of 2018

Craduata Cabaal af		M	laster's	s Progra	m		Doctoral Program							
Graduate School of Engineering	Firs	t Year	Second Year		Total		First Year		Second Year		Third Year		Total	
		International Students		International Students		International Students		International Students		International Students		International Students		International Students
Department of Mechanical and Control Engineering	83	8	85	5	168	13					4		4	
Department of Civil Engineering and Architecture	35	4	35	8	70	12					1		1	
Department of Electrical and Electronic Engineering	66	1	69	2	135	3					3		3	
Department of Materials Science	57	1	57	3	114	4								
Department of Applied Science for Integrated System Engineering	40	9	46	10	86	19					4	1	4	1
Department of Engineering							24	12	29	17	35	15	88	44
Total	281	23	292	28	573	51	24	12	29	17	47	16	100	45

Graduate		Master's Program							Doctoral Program						
School of Computer Science and Systems	Firs	First Year		Second Year		Total		First Year		nd Year	Third Year		Total		
Engineering		International Students		International Students		International Students		International Students		International Students		International Students		International Students	
Department of Advanced Informatics	53	5	61	4	114	9									
Department of Interdisciplinary Informatics	97	10	92	3	189	13									
Department of Creative Informatics	41	4	47	3	88	7									
Department of Information Science*2											1		1		
Department of Computer Science and Systems Engineering							18	12	14	6	22	10	54	28	
Total	191	19	200	10	391	29	18	12	14	6	23	10	55	28	

Graduate School	Master's Program							Doctoral Program						
of Life Science and Systems	First Year		Second Year		To	Total		First Year		nd Year	Third Year		Total	
Engineering		International Students		International Students		International Students		International Students		International Students		International Students		International Students
Department of Biological Functions Engineering	66	1	76	5	142	6								
Department of Human Intelligence Systems	60	7	64	9	124	16								
Department of Biological Functions and Engineering*2											7		7	
Department of Brain Science and Engineering*2											11	1	11	1
Department of Life Science and Systems Engineering							39	19	36	16	54	19	129	54
Total	126	8	140	14	266	22	39	19	36	16	72	20	147	55

*2: The name of department before reorganization of 2014

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Education and Research Organizations



Undergraduate School

School of Engineering

- Department of Civil Engineering and Architecture
- Department of Mechanical and Control Engineering
- Department of Space Systems Engineering
- Department of Electrical and Electronic Engineering
- Department of Applied Chemistry
- Department of Materials Science and Engineering
- Career Center

School of Computer Science and Systems Engineering

- Department of Artificial Intelligence
- Department of Computer Science and Networks
- Department of Intelligent and Control Systems
- Department of Physics and Information Technology
- Department of Bioscience and Bioinformatics
- Career Center

Graduate School

Graduate School of Engineering

- Department of Mechanical and Control Engineering
- Department of Civil Engineering and Architecture
- Department of Electrical and Electronic Engineering
- Department of Materials Science
- Department of Applied Science for Integrated System Engineering
- Department of Engineering

Graduate School of Computer Science and Systems Engineering

- Department of Advanced Informatics
- Department of Interdisciplinary Informatics
- Department of Creative Informatics
- Department of Computer Science and Systems Engineering

Graduate School of Life Science and Systems Engineering(Including Faculty)

- Department of Biological Functions Engineering
- Department of Human Intelligence Systems
- Department of Life Science and Systems Engineering
- Career Center

Faculty

Faculty of Engineering

- Department of Mechanical and Control Engineering
- Department of Civil Engineering and Architecture
- Department of Electrical and Electronic Engineering
- Department of Materials Science
- Department of Basic Sciences
- Department of Applied Science for Integrated System Engineering

Faculty of Computer Science and Systems Engineering

- Department of Artificial Intelligence
- Department of Computer Science and Electronics
- Department of Systems Design and Informatics
- Department of Mechanical Information Science and Technology
- Department of Bioscience and Bioinformatics
- Department of Creative Informatics

Institute of Liberal Arts

- Department of Humanities and Social Sciences
- Department of Foreign Languages



Education and Research Center

- University Health Center
- Information Science Center
- Center for Microelectronic Systems
- Center for Instrumental Analysis
- Learning & Teaching Center
- Laboratory of Spacecraft Environment Interaction Engineering
- Advanced Mold and Die Technology Center
- Research Center for Bio-microsensing Technology
- Eco-Town Collaborative R&D Center for the Environment and Recycling
- Frontier Research Academy for Young Researchers
- Biomedical Infomatics R&D Center
- Next Generation Power Electronics Research Center
- Center for Socio-Robotic Synthesis
- Dependable Integrated Systems Research Center
- IoT System Platform Research Center
- Research Center for Solar Light Energy Conversion

Strategic **Project Center**





Research Center for Bio-microsensing Technology

Bio-microsensing is a technology to promptly measure various biological materials which indicate health conditions. The center develops fundamental technology and instruments as a tool for self-management of health. It's also related to Dentistry-Engineering Cooperative Education and Research Center established in collaboration with Kyushu Dental University's Oral Bio Research Center

Solar Light Energy Conversion

Research Center for

hydrogen into electric energy.

IoT System Platform

The center was established with the purpose of the research and the development of materials and devices which convert solar energy into electric and chemical energy. In addition, to construct the system which stores solar energy as high-energy materials and convert it into electric energy accordingly, we aim to develop the fuel cell which converts

http://www.lsse.kyutech.ac.jp/~rcslec/en/index.html

Research Center

"Open Labo." with many industries.

Next Generation Power

Electronics Research Center

The center promotes research on upcoming

power electronics technologies and power

semiconductor devices, that contributes to the

energy conservation and the realization of a

low-carbon society. It also contributes to

educational and technology development

initiatives such as doctoral-level engineer

development through project base learning,

creating intellectual property, and promoting

research collaboration with relevant institutions

and industries. The center promotes open-

innovation-base collaboration scheme called

The center is mainly conducting the research of fundamental technology for IoT system platform. Aiming to provide feasible solutions and applications, it proceeds the research by combining technologies from Kyutech's 6 technical domains; sensor device, processor (low electricity consumption), software (algorithm), communication protocol, electric power source and circuit, and antenna (EMC).

http://www.kyutech.ac.jp/facilities/iot_system.html

Laboratory of Spacecraft **Environment Interaction** Engineering

Space systems such as satellites must endure the harsh space environment made of radiation, space plasma, ultraviolet rays, atomic oxygen, vacuum, etc. This laboratory carries out the R & D of endurance technology for such environments. The laboratory establishes suitable systems engineering practices. Its target is not only traditional satellites requiring high reliability in space with high-cost and long development time; it also targets satellites that deliver value to the customers/users with low-cost and with speed. This is the category of "lean" (small) satellites.

Center for Socio-Robotic Synthesis

The center focuses on researches on AI technologies including machine-learning, special environment robots under the ultimate environment, medical and nursing care robots, mechatronics and FA (factory automation) robots in industry, and robotics education. It aims to find new possibilities with the next generation robots which may create potentially large demand, and bring its research results back to society. And it also aims for community contribution by its effective development of human resources.

http://www.lsse.kyutech.ac.jp/~sociorobo/en/

Advanced Mold and Die Technology Center

The center is engaged in die and mold engineer education for students and workers in cooperation with industry, and contributes to local die and mold industries by conducting research and development of new technology based on Industryacademia-government collaboration

http://cim.mse.kyutech.ac.jp/kanagata/index.html

Eco-Town Collaborative R&D Center for the Environment and Recycling

The center is mainly aiming at effective utilization of urban and rural biomass and realization of advanced recycling society. It is engaged in public demonstration and introduction of the technology newly developed by Kyutech and its collaborative partners, in order to diffuse and adopt the technology in the

http://www.lsse.kvutech.ac.ip/~ecotown/

Biomedical Informatics R&D Center

The center aims to build a highest level education and research base of biomedical informatics in the world, and also the base of medical-engineering and industryacademia-government collaboration, by active research and development based on computer science and systems engineering. It also contributes to human health and welfare by medical innovation and educating global engineers as innovators.

http://www.bmirc.kyutech.ac.jp/english/index.html

Dependable Integrated Systems Research Center

The mission of the center is to create highly reliable and high-quality next generation integrated systems through the research on basic and applied technology, and to realize the safe and secure information society. And it contributes to strengthen academic and industrial competitiveness by developing advanced technology such as VLSI, wireless system and memory devices, networking for international research collaboration etc.

http://aries3a.cse.kvutech.ac.ip/~disc/en/en.html

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School of Engineering

Department of Civil Engineering and Architecture

Future urban design for solid, beautiful and enriched city

The department consists of two courses. In Architecture Course, students learn how to create functional and beautiful architecture and urban space design. In Civil Engineering Course, students acquire the knowledge and the skills to create safe and enriched city and community environment.

- Architecture Course
- Civil Engineering Course



Department of Mechanical and Control Engineering

Create future machines with high controllability

The department consists of two courses; Mechanical Engineering Course to produce and operate machines which enrich our lives by elucidating natural phenomena, and Control Engineering Course to enable intelligent smooth movement of machines by combining technologies of measuring, controlling and information devices.

- Mechanical Engineering Course
- Control Engineering Course



Department of Space Systems Engineering

Blast off to the vast space frontier

The department aims to develop highly skilled engineers and researchers with the ability of creation, research and development, production, and operation of not only space systems but also complicated engineering systems in various fields. Students learn either mechanical engineering in Mechanical and Space Systems Engineering Course or electrical engineering in Electrical and Space Systems Engineering Course, together with space engineering, system engineering and project management.

- Mechanical and Space Systems Engineering Course
- Electrical and Space Systems Engineering Course



Department of Electrical and Electronic Engineerin

Electrical and electronic systems to support infrastructure of society and industry

Electrical and electronic engineering is essential to every modern industry and social life with the broad range of related fields such as electrical energy, electric device, electronic circuit, and electronic systems. The department aims to develop engineers with expertise in these various fields who enrich the society.

- Electrical Engineering Course
- Electronic Engineering Course



Department of Applied Chemistry

Explore the world at atomic and molecular scale

Research and development in applied chemistry is to create new substances with various properties and apply them to useful materials, aiming at industrial productions. In this department, students learn basics of chemistry which sustain industrial production and manufacturing, and then acquire the knowledge and skills for application.

Applied Chemistry Course



Department of Materials Science and Engineering

Pursue materials as a bedrock of science and technology

Materials science and engineering aims to design, create and provide various materials needed for human activities. By learning materials science and engineering and developing innovative materials, we can realize manufacturing things which have never been imagined and accelerate the development of science and technology in every field.

Materials Science and Engineering Course



Reorganization of School of Engineering in April 2018 The departments and the courses were reorganized as follows.

Until the academic year of 2017

Department	Course
	Mechanical Engineering Course
Department of Mechanical and Control Engineering	Space Engineering Course
	Control Engineering Course
Department of Civil and	Architecture Course
Architectural Engineering	Civil and Environmental Engineering Course
Department of Electrical	Electrical Engineering Course
and Electronic Engineering	Electronic Engineering Course
Department of Applied Chemistry	
Department of Materials Science and Engineering	
Department of Integrated	

System Engineering

From the academic year of 2018

Department	Course					
Department of Mechanical	Mechanical Engineering Course					
and Control Engineering	Control Engineering Course					
Department of Civil Engineering and	Architecture Course					
Architecture	Civil Engineering Course					
Department of Electrical	Electrical Engineering Course					
and Electronic Engineering	Electronic Engineering Course					
Department of Applied Chemistry	Applied Chemistry Course					
Department of Materials Science and Engineering	Materials Science and Engineering Course					
Department of Space	Mechanical and Space Systems Engineering Course					
Systems Engineering	Electrical and Space Systems Engineering Course					

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Graduate School of Engineering

Master's Program

Department of Mechanical and Control Engineering

The graduate program of this department provides a comprehensive and interdisciplinary education through advanced research and professional practice in the field of mechanical engineering, control engineering, artificial intelligence and space engineering.



Department of Civil Engineering and Architecture

This department aims to train students to be experts with wide vision, advanced expertise. research capability and technological development skills in the filed of architecture, regional environment design, and urban redevelopment design toward creating and sustaining the society with happiness and reassurance.



Department of Applied Science for Integrated System Engineering

The department aims to foster advanced professional engineers with highly specialized knowledge and abilities to work in advanced interdisciplinary field and capable of leading a new era and responding to the demands of society. The program of the department is designed to pursue integrated research and educational activities in collaboration with other departments.



Doctoral Program

Department of Engineering

This doctoral program offers opportunities to research in multiple fields with a set of courses for expertise, communicative skills and leadership management. And it focuses not only on fundamental and up-to-date knowledge in related engineering fields for students to envision its impact on society, but also on the mastery of several engineering fields which contributes to the creation of innovative technologies.



Department of Electrical and

The department aims to contribute to advanced information society especially from the viewpoint of environment friendliness and energy efficiency. Its curricula include courses on electrical energy, solid state physics, electronic devices, electronic systems, sensing systems, network systems and signal processing systems.



Department of Materials Science

The department covers the design and synthesis of new substances and materials having new functions, analysis of material/substance structures and properties, and elucidation of their functional expression mechanisms. It also works on development of systems using value-added substances, and development of production processes that cater to the needs of high-tech industries.



International Course

Space Engineering International Course

Space Engineering International Course (SEIC) is designed for aspiring students and engineers with passion for space and satellites, aiming at nurturing both Japanese and international students into global engineers with cross-cultural competency and skills in space engineering. In SEIC you will engage in project-based learning in interdisciplinary, multicultural teams with access to top-notch research laboratories and satellite development and testing centers which is very unique to Kyutech. And you will gain the skills necessary to carry out the full cycle of satellite design, test, operation, systems engineering, and project management.

International Material Course

(Department of Materials Science)

Department of Materials Science is one of the graduate courses of Graduate School of Engineering and it's open for international students as International Material Course. The department covers the design and synthesis of new substances and materials having new functions, analysis of material/substance structures and properties, and elucidation of their functional expression mechanisms. It also works on development of systems using value-added substances, and development of production processes that cater to the needs of high-tech industries. For international students, all the lectures are provided in English.

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School of Computer Science and Systems Engineering

Department of Artificial Intelligence

New information technology for human-computer collaboration

The department aims to develop engineers who establish new information technologies, with which computers think and act like humans through media such as words, sounds and visuals and yield new things humans never imagined, for "human-computer collaboration".

- Data Science Course
- Artificial Intelligence Course
- Media Informatics Course



Department of Computer Science and Networks

Realize next-generation smart society with computer and communication technology

Utilization of high-level information and communication technology (ICT) for mutual collaboration among people and things through information is essential to modern society. To support the realization of a next-generation smart society, the department develops talents with the knowledge of computer hardware and software technology and ICT.

- Software Design Course
- Network Engineering Course
- Computer Engineering Course



Department of Intelligent and Control Systems

Intelligent systems as an interface between humans and the future

The department aims at realizing innovative systems as an interface between humans and the future to provide solutions for various social issues. In the three courses offered by the department, students learn how to design and develop advanced systems for robot, intelligent car, medical micro machine, ultraprecision micro machining and micro measurement, 3D printing, etc. which is constructed by the fusion of information, visual, control, and machine technology.

- Robotics Course
- Systems and Control Course
- Mechanical Science and Technology Course



Department of Physics and **Information Technology**

Learn from nature for various fields of innovative technologies

The department is developing engineers who are able to break new ground in interdisciplinary research area to yield various innovative technologies, through education and research in physics to search universal laws of nature, in biology to search universal laws of life, and in computer science as information and systems engineering technology.

- Physics and Electronics Course
- Biophysics Course



Department of Bioscience and Bioinformatics

Research on life as superb information systems

The department aims to foster talented engineers who establish new industrial fields related to human life, by combining wide range of biotechnological fields such as medicine, pharmacy, food and beverages, chemicals, environment, and biomaterials with the knowledge and technologies of computer science.

- Biomolecular Engineering Course
- Biomedical Informatics Course







Learning AGORA

Reorganization of School of Computer Science and Systems Engineering in April 2018 The departments and the courses were reorganized as follows.

Until the academic year of 2017

Offith the academic year of 2017								
Department								
Department of Artificial Intelligence								
Department of Computer Science and Electronics								
Department of Systems Design and Informatics								
Department of Mechanical Information Science and Technology								
Department of Bioscience and Bioinformatics								

From the academic year of 2018

Department	Course
	Data Science Course
Department of Artificial Intelligence	Artificial Intelligence Course
	Media Informatics Course
	Software Design Course
Department of Computer Science and Networks	Network Engineering Course
	Computer Engineering Course
	Robotics Course
Department of Intelligent and Control Systems	Systems and Control Course
	Mechanical Science and Technology Course
Department of Physics and	Physics and Electronics Course
Information Technology	Biophysics Course
Department of Bioscience	Biomolecular Engineering Course
and Bioinformatics	Biomedical Informatics Course

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Graduate School of Computer Science and **Systems Engineering**

Master's Program

Department of Advanced Informatics

The department consists of two divisions: the Division of Artificial Intelligence to study computer science and information system development; and the division of Computer Science and Electronics to study electronics, computers, LSI, and information and communication networks. The department aims to foster engineers with ability to lead advanced development to enhance the systems and component technologies for the basis of information science/engineering including core computer science and ICT technology.



Department of Interdisciplinary Informatics

The department consists of three divisions: the Division of Systems Design and Informatics which provides education and research for systems creation by applying ICT technology, the Division of Mechanical Information Science and Technology for education and research for digital engineering and robotics, and the Division of Bioscience and Bioinformatics which conducts the development of information systems related to biotechnology and research on bioinformatics.



Department of Creative Informatics

The department is designed to produce engineers who can find problems in industry occurred from the changes of society, acquire knowledge to organize the process of practical solutions and realization by cutting-edge information technology, promote industry-academia collaborations in response to the needs of society, and have an attitude to accelerate the society with information technology.



Doctoral Program

Department of Computer Science and Systems Engineering

This doctoral program consists of six divisions of three departments in the master's program. And it is designed to produce engineers with the abilities and attitudes as follows: to create advanced technology useful for the development of information technology, to build innovative information systems to cope with various problems by combining different areas of science and technologies, to lead the future of IT technology and become a global leader who can even reform the structure of society.



International Course



LSI and Applied Computing Course

LSI and Applied Computing Course is a newly opened international course in Graduate School of Computer Science and Systems Engineering. This course, which consists of two practical modules, covers the key technologies of system and LSI design including applied computing. The LSI design module provides knowledge of design for integrated circuits and dependable systems. The applied computing and system design module provides applications of computing methods with advanced systems and the methodology of system design.





21 Graduate School of Computer Science and Systems Engineering Graduate School of Computer Science and Systems Engineering 22



Graduate School of Life Science and Systems Engineering

Master's Program

Department of Biological Functions Engineering

The research and education in this department focuses on engineeringly reproducing and utilizing the structures and the functions of material and energy conversion which nature and living organisms have. And in this department, researchers in material and bioscience fields collaborate mainly in the research subjects of environment and energy, and aim to contribute to the solution for social issues such as global environment and human health.

- Division of Green Electronics
- Division of Biological Mechanics
- Division of Environmentally Conscious Chemistry and Bioengineering
- Division of Physiological and **Biochemical Adaptation**
- Division of Green Technology
- Division of Proactive Maintenance





Department of Human Intelligence Systems

The department aims to engineeringly reproduce the functional principles of human intelligence into intelligent systems and intelligent information processing, and contribute to industry and provide solutions to social issues. The research and education in this department covers advanced development of mechanical systems and devices, such as intelligent autonomous robots, intelligent information system development and artificial intelligence algorithms designs that incorporate the principles of human reasoning, and scientific analysis of social activities and human intelligence by using mathematical modelling, brain science and cognitive science.

- Division of Human Intelligence and Machines
- Division of Intelligence Systems and Emergent Design
- Division of Human Interaction and Brain Functions
- Division of Human Bahavioral Sciences
- Division of Human Technology





Doctoral Program

Department of Life Science and Systems Engineering

In this course, the two departments of the master's course are integrated into one department. The course provides cross-disciplinary and global oriented education and research to develop human resources as follows.

- ▶ Engineers and researchers with capability and understanding to elucidate the superior structures and functions of living organisms for resource and energy saving, environmental adaptation and affinity for humans and realize this for the technological applications
- Human resources who can play a dominant role as global leader by offering solutions to various issues confronting the modern society and contribute to the sustainable harmony of the society with nature
- Professionals with the capability to monitor the latest trends in research and technology continuously and strive to produce innovative research results



International Course



Global AAR Course

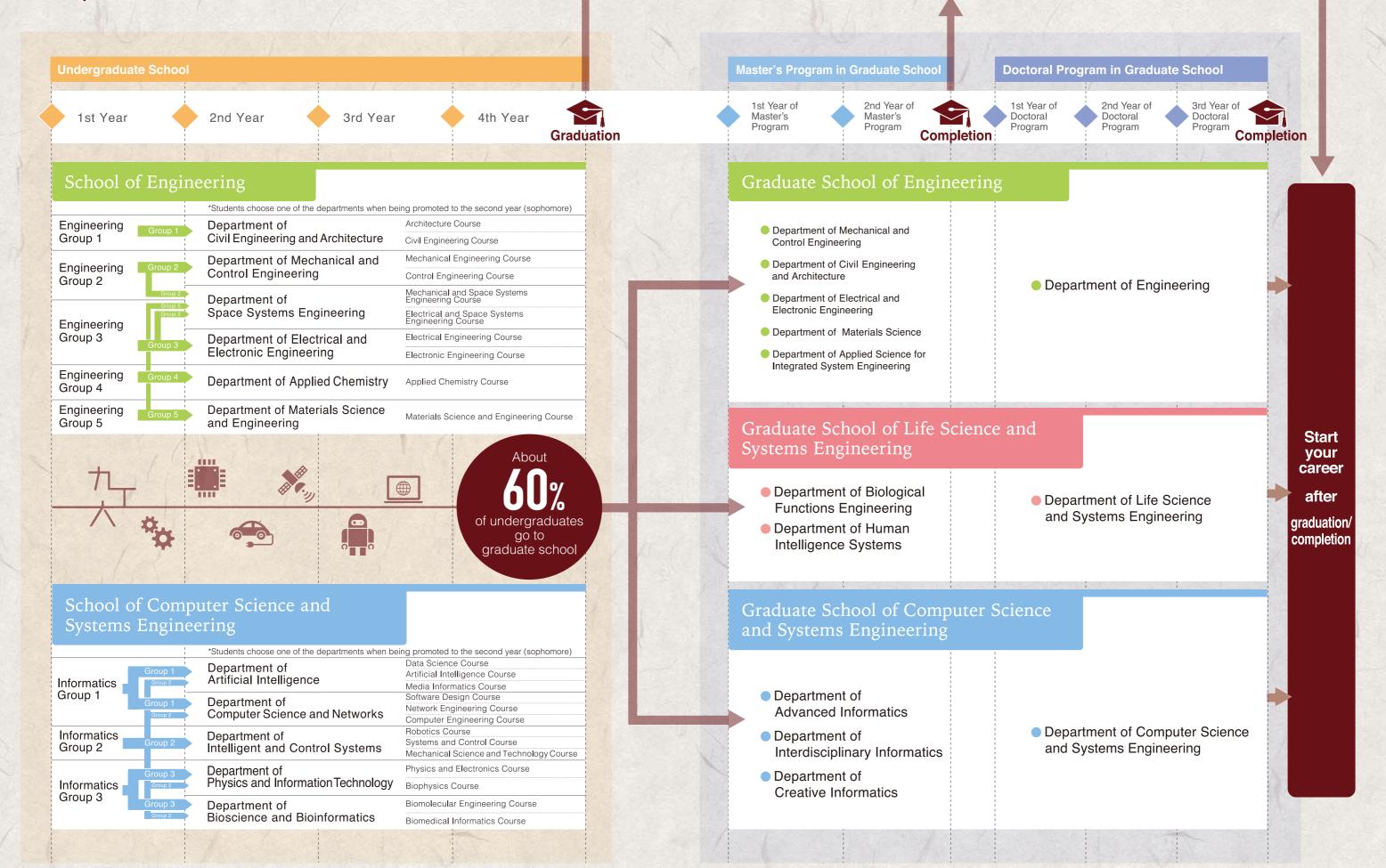
AAR is the abbreviation of Advanced Assistive Robotics, and Global AAR Course is focused on advanced robotics emphasizing the aspect of assistive technology. In this course, you will acquire knowledge and skills for design and implementation of intelligent systems that provides solutions to industry and medical welfare, in multidisciplinary subjects such as integrated circuits, control, sensing, nanosystems, computer systems, machine learning, cognitive/behavioral science, neuroscience, and brain-computer interface.

You will learn and conduct research through collaborative work with Japanese students.



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Kyutech Course Guide



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Globalization at Kyutech

MSSC (Malaysia Super Satellite Campus)

Kyutech operates MSSC on the campus of Universiti Putra Malaysia as the very first overseas satellite campus for education and research established by Japanese national university.

MSSC works as a hub for Kyutech's projects for global engineer education, international joint research, and faculty and staff development in Malaysia.

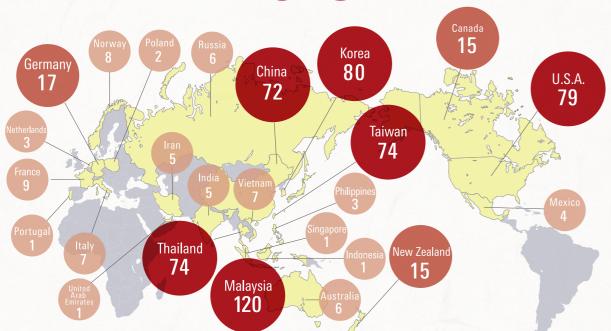


4 missions of MSSC

- Global education for students
- Student study abroad program
- Work abroad internship program in Malaysia
- Dual degree program with UPM (Doctoral course)
- 2 Recruiting talented foreign students
- 3 Accelerating international research activities
 - Joint research with UPM
 - Annual international symposium with UPM
- 4 Faculty and staff development for globalization

→ Study Abroad & Work Abroad

The number of students who joined student mobility program: 615 to 25 countries and regions



International Student Enrollment

305 international students from **36** countries and regions

(Ac of N	(av 2018)	

																	North, Central & South America													Middle East					Africa				
	China	Indonesia	India	Korea	Malaysia	Thailand	Taiwan	Bangladesh	Mongolia	Vietnam	Philippines	Bhutan	Sri Lanka	Myanmar	Nepal	Australia	United States	Canada	Mexico	Costa Rica	Colombia	Brazil	France	Italy	Russia	Slovakia	Spain	Palestine	Syria	Afghanistan	Turkey	Iran	Egypt	Nigeria	Kenya	Ghana	Total		
Total	104	24	22	21	21	21	7	7	7	6	6	5	2	1	1	2	1	1	4	3	2	1	10	3	1	1	1	2	2	2	2	1	6	3	1	1	305		
Undergraduates	11			5	8				1	2																											27		
Master's Students	44	5	2	6	4	12	2		2	2	3	5	2						1	1		1	6			1			1	1	1						102		
Doctoral Students	32	15	20	2	7	7	1	7	4	2	3			1	1			1	3	1	2		1	1			1	2	1	1	1	1	5	3	1	1	128		
Non-degree seeking students	17	4		8	2	2	4									2	1			1			3	2	1								1				48		

Breakdown by Schools

Grad	Total	57	3	1	14	8	9	4	2	5	2	3	5	2	1	1		1		3	3	2		5	2							2		3	3	1	1	143
Underg	Undergraduates	6			3	3				1	2																											15
Undergraduate/ Graduate Shool of Engineering	Master's Students	25	1		2	1	6	1		1		1	5	2							1			4								1						51
eering	Doctoral Students	13	2	1	1	3	1		2	3		2			1	1				3	1	2		1								1		2	3	1	1	45
	Non-degree seeking students	13			8	1	2	3										1			1				2									1				32
Gra	Total	24	16	6	4	7	9	3	2		2						2						1	4							1			1				82
Ur and Sy	Undergraduates	5			2	5																																12
Undergraduate/ Graduate Shool of Computer Science and Systems Engineering	Master's Students	11	3	1	2	2	5	1			1												1	1							1							29
late/ nputer Sci gineering	Doctoral Students	5	9	5			4	1	2		1																							1				28
ence	Non-degree seeking students	3	4					1									2							3														13
Gradu an	Total	23	5	15	3	6	3		3	2	2	3							1	1				1	1	1	1	1	2	2	1		1	2				80
uate Shoo d System	Master's Students	8	1	1	2	1	1			1	1	2								1				1			1			1								22
Graduate Shool of Life Science and Systems Engineering	Doctoral Students	14	4	14	1	4	2		3	1	1	1							1						1			1	2	1	1		1	2				55
science	Non-degree seeking students	1				1																				1												3

27 Globalization at Kyutech Globalization at Kyutech 28

- Number of Partner Institutions: 137 (33 countries and regions)
- -École des Mines de Saint-Étienne (France)
- -Institut Supérieur de Mécanique de Paris (France)

- -Yangzhou University (China)
- -King Mongkut's University of Technology North Bangkok (Thailand)
- -King Mongkut's University of Technology Thonburi (Thailand)
- -Changwon National University (Korea)
- -National Taiwan University of Science and Technology (Taiwan)
- -Ho Chi Minh City University of Technology (Vietnam)



University College of Southeast Norway



Faculty of Physics, Astronomy and Informatics, The Nicolaus Copernicus University

Adam Mickiewicz University

U.K

Cranfield University The University of Surrey



Université de Lorraine International Space University

École des Mines de Saint-Étienne

Institut Supérieur de l'Aéronautique et de l'Espace (ISAE-SUPAERO)

Institut Supérieur de Mécanique de Paris

Graduate School FNSFIRB-MATMECA. Bordeaux Institute of Technlogy

Université de Poitiers

Ecole Internationale des Sciences du Traitement de l'Information



GERMANY

Fukultät für Maschinenbau. Technische Universität Braunschweig

Fraunhofer Institute for Intelligent Analysis and Information Systems

Clausthal University of Technology

Faculty of Computer Science, Electrical Engineering, and Information Technology of the University of Stuttgart

Institute of Technical Chemistry, Faculty of Natural Sciences, Leibniz University of Hannover

Technische Universität Bergakademie Freiberg

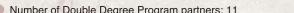


University of Salento Faculty of Science and Technology, Free University of Bolzano-Bozen University of Turin



Universitat Jaume I





Number of Double Degree Program partners: 11

- -Université de Lorraine (France)
- -Xidian University (China)

- -Univertisi Putra Malaysia (Malaysia)



CZECH

Faculty of Electrical Engineering and Computer Science, Technical University of Ostrava University of Chemistry and Technology Prague



SLOVAKIA

Faculty of Electrical Engineering and Informatics, Technical University of Kosice



SLOVENIA

Faculty of electrical engineering, University of Ljubljana



C TURKEY

Faculty of Aeronautics and Astronautics, Istanbul Technical University



BANGLADESH

BRAC University Independent University University of Rajshahi



INDIA

Indian Institute of Technology Delhi SRM University

Indian Institute of Technology (BHU), Varanasi Raman Research Institute

Indian Institute of Technology Indore

Indian Institute of Technology Kanpur

Dronacharya College of Engineering Manipal University

Chennai Institute of Technology

University of Calcutta



Thammasat University

Sirindhorn International Institute of Technology, Thammasat University

Faculty of Science, Mahidol University Faculty of Science, Chulalongkorn University King Mongkut's University of Technology

North Bangkok Rajamangala University of Technology Phra-Nakhon

Kasetsart University

King Mongkut's University of Technology

King Mongkut's Institute of Technology Ladkrabang Faculty of Science, Khon Kaen University Vidyasirimedhi Institute of Science and Technology



EHEK)

France •

Portugal •

Spain

Ghana

Hanoi University of Science and Technology

University of Technology, Vietnam National University



Universiti Putra Malaysia Universiti Teknologi Malaysia

Universiti Teknologi MARA

Universiti Pendidikan Sultan Idris

Universiti Tunku Abdul Rahman

TAIWAN

National Taiwan University of Science and Technology College of Science, National Cheng Kung University

College of Electrical Engineering and Computer Science, National Cheng Kung University

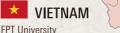
National Taipei University of Technology

National Yang-Ming University

College of Electrical Engineering and Computer Science, National Taiwan University

National Tsing Hua University

Tunghai University



Nigeria

Norway

Germany

Italy

Poland

Czech Slovakia

Slovenia

Russia

Turkey

University of Science-HCMC

Institute of Biotechnology, Vietnam Academy of Science and Technology

Vietnam National Satellite Center

National Key Laboratory of Digital Control and System Engineering,

Ho Chi Minh City University of Technology



MALAYSIA

Universiti Kebangsaan Malaysia

Universiti Sains Malaysia

College of Engineering, National Taiwan University

College of Engineering, National Sun Yat-sen University

Indonesia

Malaysia

Mongolia

Bangladesh

Singapore

India

China

Vietnam Taiwan

Thailand Philippines

Korea

Japan

Australia

RUSSIA Peter the Great Saint-Petersburg
Polytechnic University, Institute of Metallurgy, Mechanical Engineering and Transport Novosibirsk State University

CHINA

University of Science and Technology Beijing

Shandong University

East China Jiaotong University

Henan University of Science and Technology

Yangzhou University

East China Normal University

Xidian University

Xi'an Jiaotong University Department of Energy and Power Engineering,

China Agricultural University

Northeastern University

Tsinghua University

Center for Brain Science Research, Fudan University

Dalian University of Technology

Qingdao University of Technology China University of Petroleum-Beijing

Hefei University of Technology Division of Biomedical Engineering of

Interdisciplinary Programs Office, the Hong Kong University of Science and Technology Changshu Institute of Technology

Institute of Urban Environment, Chinese Academy of Sciences

Jiangsu University

School of Automation, Nanjing University of Posts and Telecommunications

New Zealand

Kyutech

MONGOLIA National University of Mongolia



KOREA

Changwon National University

Korea National University of Transportation

Pusan National University Brain Research Center, Pohang University of Science & Technology

School of Engineering, Pohang University of Science and Technology

Hanbat National University

Sookmyung Women's University Korea Electronics Technology Institute

The CK-1 Center, Yeungnam University School of Science and Engineering of Chemical

Technology Korea Maritime and Ocean University

Chung-Ang University

Materials, Kumoh National Institute of



PHILIPPINES

University of the Philippines Diliman Ateneo de Manila University



SINGAPORE

National Institute of Education (NIE) of Nanyang Technological University

INDONESIA Institut Teknologi Bandung

University of Sumatera Utara

Mexico •

Costa Rica

Canada

U.S.A.

Hasanuddin University Engineering Faculty,

Faculty of Medicine,

Diponegoro University AUSTRALIA

University of Technology Sydney Australian National University



NEW ZEALAND

Faculty of Creative Industries and Business,

United Institute of Technology Knowledge Engineering & Discovery Research Institute, Auckland University of Technology



U.S.A. Clarkson University

The University of Texas at El Paso

California Polytechnic State University The City College of New York The University of Colorado at Boulder

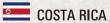
Brooklyn College of the City University of New York USC Viterbi School of Engineering, University of Southern California



University of Ontario Institute of Technology MEXICO

Department of Microbiology and Parasitology, Faculty of Medicine, National Autonomous University of Mexico

The National Institute of Technology of Mexico



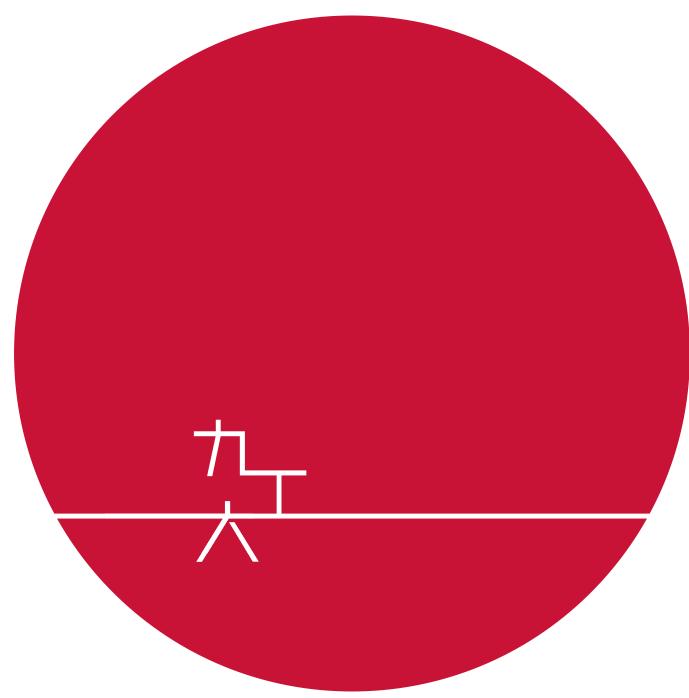
Instituto Tecnológico de Costa Rica



GHANA

All Nations University College

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