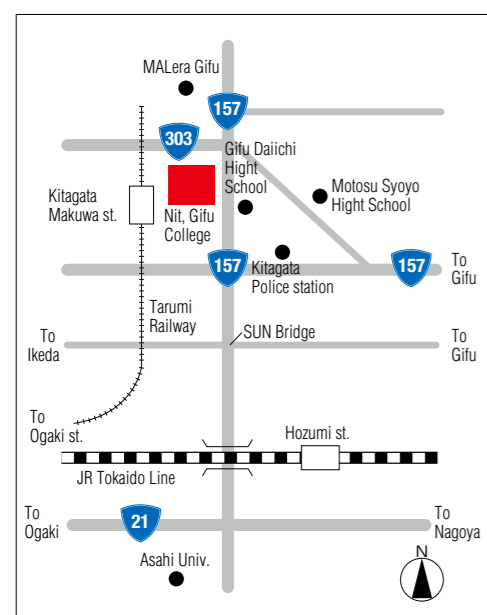
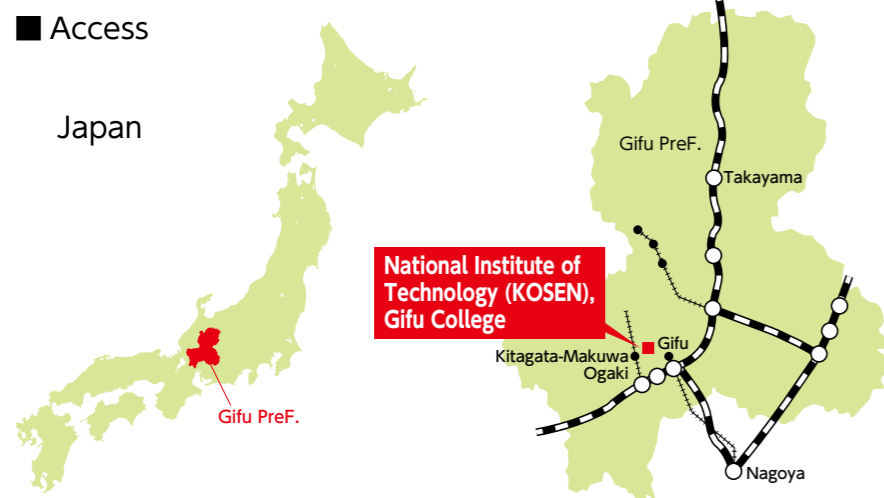


- Department of Mechanical Engineering
 - Department of Electrical and Computer Engineering
 - Department of Electronic Control Engineering
 - Department of Civil Engineering
 - Department of Architecture
-
- General Education (Humanities・Natural Sciences)

Advanced Course

- Interdisciplinary Technology Development

■ Access



(From Gifu)
bound for Gifu-Kosen by Gifu Bus(weekdays only)
" Malera-Gifu " (walk 1.2km southward)
Get off at Kamimakuwa bus stop of Gifu Bus(walk 1.5km northward)

(From Ogaki)
Get off at Kitagata-makuwa station of Tarumi Railway(walk 1.2km northward)

(From Hozumi)
Get off at Itonuki-Bunchosha/Malera-Minamiguchi bus stop of Gifu Bus
(walk 0.7km southward)

Website
<http://http://www.gifu-nct.ac.jp/eng/access-e.html>

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National Institute of Technology (KOSEN), Gifu College



To pursue applications in technological and scientific discovery
in order to better serve the needs of our society.



School Logo



Selected from a number of designs submitted by the public, Professor Ryoichi Shibata's (Department of Architecture) design was adopted as our official logo. The design was created to reflect the surrounding scenic mountain landscape and expanse of sky. With the color green represents our departments and blue our advanced courses, the two colors express ever growing possibilities. The embedded deep red diamond symbolizes alumni pride in their alma mater, National Institute of Technology, Gifu College.

Emblem



Our school emblem originates from the former imperial university emblem that embodies simplicity, steadfastness and tradition. Within the outline of the university emblem, the characters 'Ko Sen' are embossed with no motif. This emblem was designed in the hope that our graduates attain success as engineers who are as respected in character and professional knowledge as university graduates.

Welcome to the official web site of Gifu National College of Technology.

In April, 2004, 55 national colleges of technology out of 63 colleges of technology nationwide were brought together to form the Independent Administrative Institute of National Colleges of Technology Japan. Now 51 national colleges of technology with about 53,000 students have been rebuilt nationwide. Since Colleges of Technology are abbreviated as "KOSEN", our college is the only "KOSEN" in Gifu Prefecture. Consequently, Gifu KOSEN has been re-established as a member of this newly formed Institutions.

A "KOSEN" is an institution of higher education, including colleges and universities. It accepts junior high-school graduates, and provides a five-year education in one of the technological concentrations. At a KOSEN, students can concentrate on the study area that they major in, as they do not need to prepare for college entrance examinations. After the completion of the program, KOSEN graduates may choose to begin a career as an engineer and play an active role in the fields of Industry and Engineering. They can also choose to continue their education at our "Senko-ka (Advanced Course)" for two more years in pursuit of their bachelor's degree. Furthermore, they can also take examinations for admission as a third-year transfer student to an undergraduate program of the University of their choice.

At Gifu college, National College of Technology, the aim of "the product design" is at the core of our engineering studies. Through our intensive curriculum, students acquire the advanced technical skills in order to enrich their education. While it is vital for Japan to continue to contribute to the world in the areas of high technology and information technology, international training of those who acquire advanced technical skills will become ever more critical as well.

Our college has five departments: Mechanical Engineering, Electrical and Computer Engineering, Electronic Control Engineering, Civil Engineering and Architecture. Concerning the specific characteristics of each department, please refer to the guidance section of this homepage. Each department attaches as much importance to computerization as to fundamental knowledge. Computer literacy and practical English, in addition to the special technological concentrations offered during the five-year education term, are the necessary passports to the highly-developed, information-oriented society of the twenty-first century.



Gifu college, National College of Technology
President ITOH YOSHITO, Dr. Eng.

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History

Nov-1962	The cooperative organization for establishing Gifu National College of Technology was authorized.
Jan-1963	The site of Gifu National College of Technology was decided (Shinsei-cho, Motosu-gun, Gifu)
//	Kakamigahara Unuma Junior High School (now Unuma Daiichi Elementary School) was appointed for the site of temporary schoolhouse.
Apr-1963	Gifu National College of Technology was established with three departments : Mechanical Engineering, Electrical Engineering, and Civil Engineering.
//	Dr. Sc. Hiroshi Inuma, the former Dean of the Faculty of Engineering at Gifu University, was appointed the first President.
Mar-1964	Main Building I and Dormitory A were erected.
//	Move from the temporary school building to the present one.
Jun-1964	The library opened.
Mar-1965	Main Building II , Building for Practical Work and Dormitory D were erected.
Mar-1966	Main Building III , Gymnasium I and Dormitory C were erected.
Apr-1966	General Affairs and Finance Divisions were established.
Dec-1966	Kendo Training Hall was erected.
May-1967	Swimming Pool was erected.
Jan-1968	The site of Training Camp "Ryouonso" was erected.
Apr-1968	Department of Architecture was established.
Mar-1969	Building for Dep. Architecture was erected.
Apr-1971	Student Affairs Division was established.
Mar-1972	Library was erected.
Nov-1972	The commemoration ceremony for the 10th anniversary was held.
Feb-1973	Computer Center was erected.
Apr-1974	The acceptance ceremony for Ando Memorial Hall was held.
Apr-1978	Dr. Eng. Yoshimasa Furuya, the former Dean of the Faculty of Engineering at Nagoya University, took office as the second President.
Aug-1978	Superintendence and the site of the 13th All-Japan Inter-Collegiate Athletic Competition.
Mar-1979	The Site of Training Camp "2nd Ryouonso" and drainage were erected.
Mar-1980	Gymnasium II was erected.
Jul-1981	Main Building IV was erected.
Nov-1983	The commemoration ceremony for the 20th anniversary was held.
Apr-1984	Dr. Sc. Hitoshi Wakita, the former Dean of the Faculty of Engineering at Gifu University, took office as the third President.
Mar-1985	Welfare Hall "Ibuki" was erected.
Apr-1988	Department of Electronic Control Engineering was established.
Mar-1990	Main Building V was erected.
Apr-1991	Dr. Eng. Akiyoshi Okitsu, the former Professor at Toyohashi University of Technology, took office as the fourth President.
//	Gifu National College of Technology began to accept overseas students.
Mar-1992	A Men's dormitory (D building) was renovated into the Women's dormitory.
Apr-1992	Five-day school week system was introduced.
Oct-1992	An academic exchange contract with Dong Yang Technical College, Korea was concluded.
Apr-1993	Restructuring of Department of Civil Engineering.
Oct-1993	The commemoration ceremony for the 30th anniversary was held.
Jun-1994	Dormitory D was erected.
Sep-1994	The playground was renovated.
Apr-1995	Advanced Course was established.
Mar-1996	Dormitory buildings (B, C and Women's) were renovated.
Mar-1997	An international academic exchange agreement with Cossatot Technical College, Arkansas, USA was concluded.
Mar-1997	Advanced Course Building was erected.



Unuma Temporary School Building (1963)



Main Building I (1964)



Planting of zelkova (1983)

Apr-1998	Dr. Eng. Masamitsu Kosaki, the former Professor at Toyohashi University of Technology, took office as the fifth President.
Aug-1999	Dormitory buildings (administrative building, dining room, bathroom) were renovated.
//	Facilities for photovoltaic power generation were installed.
Apr-2000	Restructuring of Department of Electrical Engineering into Department of Electrical and Computer Engineering.
Oct-2000	Main Building III was partly renovated. (Enlargement of classrooms)
Dec-2000	Multimedia Building was erected.
Mar-2001	The building of the Electrical and Computer Engineering Department was renovated and enlarged.
//	Main Buildings I, II and V were renovated and enlarged. (Enlargement of classrooms)
Aug-2001	The Dormitory Administration Building, the Second Women's Dormitory, the Men's Bathroom, and the Dormitory Cafeteria were renovated.
Jan-2003	A signboard of the schoolname was placed at the top of D dormitory.
Apr-2003	The commemoration ceremony for the 40th anniversary was held.
Apr-2004	Transition to the Independent Administrative Institution, Institute of National Colleges of Technology, Gifu College of Technology.
May-2004	The educational program of Environmental System and Design Engineering was authorized by Japanese Accreditation Board of Engineering Education (JABEE).
Apr-2006	Dr. Eng. Tateki Sakakibara, the former Professor at Toyohashi University of Technology, took office as the sixth President.
Mar-2007	Certified its compliance with the accreditation standards of the National Institution for Academic Degrees and University Evaluation in 2006.
Apr-2009	The educational program of Environmental System and Design Engineering was authorized by Japanese Accreditation Board of Engineering Education (JABEE).
Mar-2010	The Regional Technology Center was renovated.
Feb-2011	The academic exchange agreement with Institute of Advanced Media Arts and Science (IAMAS).
Apr-2011	Dr. Eng. Toshihiro Kitada, the former Professor and Dean of School of Environmental and Life Sciences, Toyohashi University of Technology, took office as the seventh President.
Jul-2011	The domestic academic exchange agreement among Toyohashi University of Technology, four National Colleges of Technology of Gifu, Numazu, Toyota, and Suzuka and National College of Maritime Technology of Toba.
Nov-2011	The international academic exchange agreement with Institute of Technology, Bandung (ITB), Indonesia.
Jul-2012	The international academic exchange agreement with University of Technology, Malaysia (UTM).
Sep-2012	The international academic exchange agreement with Faculty of Mathematics and Physics, University of Hannover, Germany.
Apr-2013	The international academic exchange agreement with University of Iowa, USA.
Sep-2013	The building of the Mechanical Engineering Department was renovated.
Nov-2013	The commemoration ceremony for the 50th anniversary was held.
Mar-2014	Certified its compliance with the accreditation standards of the National Institution for Academic Degrees and University Evaluation in 2013.
Jun-2014	The international academic exchange agreement with TTPU, Turin Polytechnic University in Tashkent, Uzbekistan.
Apr-2015	The educational program of Environmental System and Design Engineering was authorized by Japanese Accreditation Board of Engineering Education (JABEE).
Sep-2015	An international academic exchange agreement with Tashkent State Technical University, Uzbekistan was concluded.
Jan-2016	An international academic exchange agreement with Tashkent Automobile and Road Construction Institute, Uzbekistan was concluded.
//	An elevator was set in the Main Building I.
Feb-2016	An international academic exchange agreement with Institut Universitaire de Technologie, Lille A, France was concluded.
//	The building of the Civil Engineering Department was renovated.
Mar-2016	Renovation of the First Gym and some other facilities.
Apr-2016	The Advanced Course of Electronic System Engineering and the Course of Architecture and Civil Engineering were reorganized into one course (Advanced Course for Interdisciplinary Technology Development).
//	Dr. Eng. Yoshito Ito, the former Professor of the Faculty of Civil and Environmental Engineering at Nagoya University, was appointed the eighth President.
Jan-2017	An international academic exchange agreement with Hanoi Architectural University, Vietnam was concluded.
//	An international academic exchange agreement with Mien Trung University of Civil Engineering, Vietnam was concluded.
Feb-2017	An elevator was set in the Main Building V.
Aug-2017	An international academic exchange agreement with JIANGSU URBAN AND RURAL CONSTRUCTION COLLEGE, China was concluded.
Feb-2018	An international academic exchange agreement with Universiti Tun Hussein Onn Malaysia was concluded.



50th Anniversary of Founding Monument (2013)



Fifty Years of Gifu Kosen

Outline of NIT

1. Outline

National Institute of Technology, Gifu College was established in April of 1963 as a five-year national institution of higher education with three specialized departments of Mechanical Engineering, Electrical Engineering and Civil Engineering. In 1968, the Department of Architecture, and in 1988, the Department of Electronic Control Engineering, were newly attached as the college expanded into an institution with five specialized departments. Furthermore, in order to adjust our curriculum to meet social advancement and change, the Department of Civil Engineering was restructured in 1993. Additionally, the Department of Electrical Engineering was restructured into the Department of Electrical and Computer Engineering in 2000. Further enhancement at the College of Technology included the attachment of the Faculty of Advanced Engineering in 1995, where students can acquire bachelorship, within a two-year study program. In 2003, in order to internationally assure the academic achievements and technical capabilities of the graduates of the Advanced Faculty, the systematic educational program of the Environmental System and Design Engineering for students between the fourth year of the five-year course and the second year of the Advanced Faculty was constructed. Also in that same year, the college was assessed and authorized by Japanese Accreditation Board of Engineering Education (JABEE). With the transition of all national colleges becoming Independent Administrative Institutions in 2004, the college has set forth on a mission with “further individualization, activation and enhancement” as its main objectives.

The education philosophy at the college is to instruct expert knowledge and technique and to cultivate technological abilities indispensable to proficient engineers. The characteristic of the college lies in the provision of effective, continuous five-year education that leads students to become full-fledged members of society as well as proficient engineers. In the five-year term of study, three years of upper secondary school and two years of the first half of higher education combined, students are educated under a curriculum comprised of carefully selected subjects from general education of upper secondary school as well as specialized subjects of higher education.

Each department of the college has its own distinctive curriculum, striving to continuously modify and improve according to the changes and demands of society. Furthermore each department exercises its own admission policy. The contents of the specialized subjects instructed in our college are equivalent to university level, and various experiments and exercises with a high regard for the instruction of “Product Design” enable students to acquire practical skills necessary for appropriate application and development within each technical profession. Moreover, after completing the five-year regular course, students have the opportunity to further their studies of their specialized fields in the Faculty of Advanced Engineering, a program specifically designed to focus on advanced research and practical training.

The primary characteristic of the curriculum of the college is to develop proficient engineers who can fulfill the expectations of the industrial world. The method of education fosters a teaching environment with fewer students and a high regard for hands-on learning such as experiments, exercises and skills practice. Statistics have revealed in recent years that nearly 45 percent of our graduates of the five-year course either attend the Advanced Faculty Program or transfer to a university to further augment their specialized education.

Educational philosophy

1. Educational Philosophy

- (1) To pursue applications in technological and scientific discovery in order to better serve the needs of our society.
- (2) To broaden our global perspective while playing an active role in meeting the environmental challenges of today.
- (3) To work at the forefront of an information-based society.

2. Engineer to Be Trained

An engineer who works at the forefront of an information-based society with global perspective, pursuing applications in technological and scientific discovery in order to better serve the needs of our society.

3. Educational policies (three policies)

■ Associated Degree Program (three policies)

[Diploma Policy] (Basic principles in degree conferment)

The program confers an associate degree to students who have been enrolled in the program for the set number of years, who have acquired the competences and skills listed below, who have acquired the credits as specified by each department, and who have passed the dissertation.

1. (A) Have developed ethics
Have developed ethics as an engineer who understands social and environmental problems on a global scale and who is aware of the implications of science and technology.
2. (B) Have acquired design abilities
Be able to actively plan solutions to problems when encountering new challenges in work. Have acquired design and teamwork capacities, continuing to carry out plans and produce outcomes using basic knowledge.
3. (C) Have developed communication skills
Have developed skills to describe and present in Japanese and mastered basic communication skills that can be used in the internal arena.
4. (D) Have acquired specialist knowledge/practical skills
Have acquired the capacity to understand basic knowledge in the chosen specialty and to practically engage with applications of this knowledge.

5. (E) Have developed ICT skills
Have developed skill to use information equipment and to construct programs as necessary in the specialty.

[Curriculum Policy] (Basic principles in curriculum design and implementation)

The program's curriculum consists of the following in order to develop the skills listed under the Diploma Policy.

1. General Education: Subjects in humanities, social sciences, and arts to develop a wide and rich foundation of knowledge; subjects to learn academic basics necessary in acquiring specialist knowledge and skills in engineering; subjects to acquire inter-cultural communication skills and ethics as an engineer.
2. Specialist subjects: Subjects to acquire basic skills of the specialty and to learn practical engineering skills; subjects to develop critical-thinking and problem-solving skills.
Academic achievement is assessed in accordance with the details of the Diploma Policy. Each subject is marked in accordance with the written criteria based on the syllabus (overall attitude toward learning, marks on assignments, and so on).

[Admission Policy] (Basic principles in selection)

The program's Admission Policy is based on the Diploma Policy and is designed to select students with the following skills and motivation. More concretely, we look for students with the following qualities.

1. Those who strive to acquire basic knowledge
2. Those who would like to acquire general knowledge as well as specialist knowledge and practical skills
3. Those with active curiosity who would like to develop themselves as engineers
4. Those who would like to make contributions to society using the knowledge they gain during their studies.

■ Advanced Course Program (three policies)

[Diploma Policy] (Basic principles in degree conferment)

The Program confers an advanced course degree to students who have been enrolled for the set number of years, who have acquired the competences and skills listed below, who have acquired the credits specified by each department, and who have passed the dissertation.

1. Have developed ethics
2. Having acquired design abilities
3. Have developed communication skills
4. Have acquired specialist knowledge/skills
5. Have developed ICT skills

[Curriculum Policy] (Basic principles in curriculum design and implementation)

Subjects in the Advanced Course Program are based on mechanical engineering, electrical and computing engineering, electronic control engineering, civil engineering, architecture, and interdisciplinary areas and consist of the following three kinds.

1. Specialist development subjects: Subjects to learn practical engineering technology for advanced interdisciplinary development
2. Basics in specialist subjects: Subjects to learn the basics of advanced interdisciplinary development
3. General subjects: Subjects to acquire a wide range of foundational knowledge and language suitable for engineers

Academic achievement is assessed in accordance with the criteria specified in the Diploma Policy focusing on dissertation as a cap-stone project. Each subject is marked on the basis of the criteria specified in the syllabus (general attitudes toward learning, marks obtained in assignments and exams).

[Admission Policy] (Basic principles in selection)

The Advanced Course Program looks for students with the following qualities:

1. Those with an international perspective aiming to acquire technical skills in manufacturing to contribute to global sustainable development through advanced interdisciplinary development
2. Those aiming to acquire interdisciplinary development skills to realize innovative value creation in response to demands from the industry
3. Those who are highly motivated to learn and research interdisciplinary development having learnt basic specialist knowledge at Kosen

4. Educational Objectives

Associate Degree Program

- (1) To produce engineers who possess the vision, knowledge, ambition, and character necessary for a career in science and technology.
- (2) To produce engineers who have abilities in basic attainment, as well as fundamental creative and application skills.
- (3) To produce engineers who have sufficient capabilities in international communication; in addition to advanced skills in information technology.
- (4) To produce engineers who possess technological ethics and integrity.
- (5) To produce engineers who will make vital contributions to society through applied scientific and technological education and research.

Advanced Course Program

- (1) To produce engineers who seek further understanding of their major fields of study, and also possess interdisciplinary insights.
- (2) To produce engineers with problem-solving capabilities who can search, organize, design and plan studies that are important to the society, and analyze, perform and improve them with continuous efforts.
- (3) To produce engineers who have strong verbal ability in Japanese, and also international communication ability.
- (4) To produce engineers who have the ability to organize and implement programs in their major field of study by taking advantage of cutting edge technology.
- (5) To produce engineers who have a solid understanding of professional and ethical responsibilities from a diverse, global point of view, and are willing to contribute the region's development.

5. Specific Educational Objectives in Academic Abilities and Qualifications for Each Department and the Advanced Course

Concrete learning/educational objectives such as academic capacity, qualities, and skills to be developed in each department are detailed in the Diploma Policy under (A) Ethics, (B) Design ability, (C) Communication skills, (D) Specialist knowledge/skills, and (E) Information technology. In addition, we provide students with five watchwords. The correspondence with the Diploma Policy is shown in the following table.

Correspondence between the Diploma Policy and educational objectives

(Associate Degree Program)

◎ shows deep involvement, and ○ involvement.

Diploma policy	(A) Ethics	(B) Designing Ability	(C) Communication Skill	(D) Specialist knowledge/practical skills	(E) Information Technology
Educational objectives					
(1) To produce engineers who possess the vision, knowledge, ambition, and character necessary for a career in science and technology.	◎	○			
(2) To produce engineers who have abilities in basic attainment, as well as fundamental creative and application skills.		◎		◎	
(3) To produce engineers who have sufficient capabilities in international communication; in addition to advanced skills in information technology.			◎		◎
(4) To produce engineers who possess technological ethics and integrity	◎				
(5) To produce engineers who will make vital contributions to society through applied scientific and technological education and research.	○	◎		◎	
Watchword	Wide background knowledge	Product Design	Internationalization	Deep Specialty	IT

(Advanced Course Program)

◎ shows deep involvement, and ○ involvement.

Diploma policy	(A) Ethics	(B) Designing Ability	(C) Communication Skill	(D) Knowledge and Ability of the Specialized Field	(E) Information Technology
Educational objectives					
(1) To produce engineers who seek further understanding of their major fields of study, and also possess interdisciplinary insights.				◎	
(2) To produce engineers with problemsolving capabilities who can search, organize, design and plan studies that are important to the society, and analyze, perform and improve them with continuous efforts.		◎			
(3) To produce engineers who have strong verbal ability in Japanese, and also international communication ability.			◎		
(4) To produce engineers who have the ability to organize and implement programs in their major field of study by taking advantage of cutting edge technology.					◎
(5) To produce engineers who have a solid understanding of professional and ethical responsibilities from a diverse, global point of view, and are willing to contribute the region's development.	◎				
Watchword	Wide background knowledge	Product Design	Internationalization	Deep Specialty	IT

Research policies

1. To promote the teaching staff's specialist research as well as to communicate its outcomes widely.
2. To promote joint research projects that contribute to the sustainable development of local industry and society by liaising with industry and the government using the Techno Center.
3. To further stimulate research by providing guidance and information on acquiring competitive external funding.
4. To support research promotion and publication through the president's discretionary budget.
5. To provide guidance on intellectual property rights to promote/support patent application.

Regional contributions

1. To actively engage with projects of the Gifu Association of Regional Alliances and others to promote industry-academy-government collaboration in the community and communicate their outcomes widely.
2. To enhance the program of open classes, visiting lectures, and opening up of the library in order to play a role as the educational base of manufacturing in the local community and in developing next-generation human resources.
3. To promote support for science and math education and information education for elementary school and junior high school children.
4. To contribute to the local community by taking up various roles.

Scenes from NIT's regional contribution (open classes)



Making electronic musical instruments: Electronic handcraft using micro computers



Kinokuni Robot Competition



Making decorative lights with LEDs

General Education

Humanities <http://www.gifu-nct.ac.jp/jinbun/> Natural Sciences <http://www.gifu-nct.ac.jp/sizen/>



General Education

In the 21st century, an industrial technical expert will be expected without fail to have a wide variety of knowledge in any field of human activities as well as highly-developed technology. This is why even those who specialize in technology should learn liberal arts, natural science and other subjects in addition to their own specialized fields. Accordingly in our college, special attention is given to the acquirement of the subjects for general education, which correspond to those of senior high schools in lower grades and those of universities in higher grades. Those subjects are, however, interrelated from lower grades to higher grades so that students can acquire a large quantity of knowledge as consistently and effectively as possible within the limit of five years. Another advantage of the general education in our college is that there are many substantial facilities and equipments which can be freely utilized for class activities. By means of these educational aids, the general education of our college is being effectively carried on.

The Engineers to Be Trained in General Education (Humanities)

Technical knowledge and specialties associated with technology are undeniably important to the present age. Additionally, exhaustive research efforts to attain knowledge with respect to international and historical circumstances coupled with insight based on the foursquare ethic are also required. Furthermore, let us not underestimate the importance of applying motivational development and learning ability into the aforementioned categories.

Human resources inevitably handle resources of information, knowledge, and technologies. The department aims to provide for the educational development, cultural enrichment and practical skills which can be applied to each respective technological field.

Based on the background criteria mentioned above, this department lists the criteria of Engineers in Training as follows:

Engineer to Be Trained

1. An engineer who can think about social problems with broad outlook and ethical sense by way of understanding historic and cultural background of the human race and respecting a viewpoint of other people and countries.
2. An engineer who can communicate in a bilingual environment.
3. An engineer who has cultural, geographic, and ethical perspective.

The Engineers to Be Trained in General Education (Natural Sciences)

To utilize and develop well-served engineering for human beings, it is necessary to understand the rules of physics and chemistry as a basis of engineering and develop a scientific way of thinking. Since mathematics is the means that is required indispensability to express a scientific rule, engineers should learn its skills and ways of thinking adequately.

Furthermore, in order to live a healthy humanistic life using outcomes of technologies in the modern society, it is necessary to acquire the knowledge of healthcare and to understand the effects for physical education to give one's mind and body through his or her own learning experience.

Based on the background criteria mentioned above, this department lists the figure of the engineers to be trained as follows:

Engineers to Be Trained

1. An engineer who has fundamental knowledge of mathematics, physics, and chemistry, and can apply them to a specialized field.
2. An engineer who has knowledge about the health of mind and body, and can live a healthy life.

Concrete Educational Objectives for Achievement and Qualification to Be Attained in the Department of General Education

1. To understand historic and cultural background of the human race, and to learn the basics of outlook on ethic in order to capture social problems in deference to a viewpoint of other people and countries.
2. To acquire healthcare ability and physical strength in order to be an engineer with healthy mind and body, and to bring up breadth of mind and do his or her life wealthily through keen appreciation of arts, sense of cooperation, creativeness, imaginativeness.
3. To acquire the fundamental ability to describe, present, and discuss in Japanese.
4. To acquire the basic communication skills in English and acquire global perspectives through learning other foreign languages.
5. To acquire the fundamental knowledge of mathematics and natural science and the ability to solve problems with them.

The educational objectives mentioned above are common to each specialized department corresponding to an associate degree course.

Curriculum of General Education(Students enrolled after 2018)

1st		2nd		3rd		4th		5th	
Japanese A	2	Japanese	2	Japanese	2	Japanese	1	English A	2
Japanese B	2	Ethics	2	Politics and Economics	2	Modern Social Studies and Law	2	Chinese	2
World History	2	Japanese History	2	Mathematics A I	2	Physical Education	2		
Geography	2	Mathematics A I	2	Mathematics A II	2	English A	2		
Mathematics A I	2	Mathematics A II	2	Physical Education	2	German	2		
Mathematics A II	2	Mathematics B	2	English A	2				
Mathematics B	2	Physics B I	2	English C	1				
Physics A	1	Physics B II	2						
Chemistry A	2	Chemistry B	2						
General Science	1	Physical Education	2						
Health Education	2	English A	2						
Physical Education	2	English B	1						
Art	1	English C	2						
Music	1								
English A	2								
English B	2								
English C	2								



Electronic Blackboard being used in Ethics Class

Academic Staff

Title	Name	Degree	Subjects in charge
Professor	(◎2) UEHARA, Toshiyuki	D. Eng.	Chemistry
	(◎1) KAMEYAMA, Taichi	M. Ed.	English
	MIYAGUCHI, Noriyuki	M. A.	Japanese
	KUBOTA, Keiji	M. Ed.	Politics and Economics, Ethics
	NAKASHIMA, Izumi	M. Sc.	Mathematics
	(○1) YAMAMOTO, Hiroki		Health and Physical Education
	(○2) NAKAJIMA, Yasutaka	D. A.	Japanese
	OKAZAKI, Takanobu	D. Sc.	Mathematics
Associate Professor	(※) MAGUSA, Atsushi		Health and Physical Education
	NONOMURA, Sakiko	M. A.	English
	KAN, Nahomi	D. Sc.	Physics
	KITAGAWA, Shinya	D. Sc.	Mathematics
	SUGAHARA, Takashi	D. A.	English
Lecturer	SORA, Kenta	M. Ed.	Modern Social Studies and Law and World History
	KATADA, Yoko	Ph. D.	Japanese
	KOBAYAKAWA, Yugo	D. Ec.	Geography and Ethics
	SATAKE, Naoki	M. Ed.	English
Assistant Professor	YAGI, Shintaro	D. Sc.	Mathematics
	WATANABE, Shin	D. Sc.	Physics and Chemistry
	AKAGAWA, Yoshiho	D. Sc.	Mathematics
Temporary Professor	KATSUNO, Daisuke	M. Ed.	Health and Physical Education
	OKADA, Shozo	M. Sc.	Mathematics
	SHIMIZU, Akira		English

- ◎1 Chairman of Department (Liberal Arts) ◎2 Chairman of Department (Science)
- 1 Dean of Student Affairs ○2 Dean of Dormitory Affairs
- ※ Director of Counseling Service center



e-Learning in English Class



Mathematics Class



Physical Education Class

Department of Mechanical Engineering

<http://www.gifu-nct.ac.jp/mecha/>



Department of Mechanical Engineering

The purpose of this department is to turn out mechanical engineers with practical and creative ability in the field for both designing and manufacturing machines. The curriculum of this department is arranged to achieve this purpose and the textbooks adopted in the classes from 3rd to 5th year are the same level as those used in university undergraduate classes. Moreover, practical subjects such as machinery design and drafting, engineering practice, and mechanical engineering experiments are adopted by skilled expert staff members and the latest equipment.

The curriculum of this department has been revised every five years to fit the current development of the transportation industry dealing with aircraft and automobiles, information technology and robotics to provide the timely human resources needed in the industrial and manufacturing world. The teachers in this department whose fields are mechanical engineering or peripheral areas have respective themes of research that not only provide the high quality-education but also allow them to be active researchers.

The courses from which students graduate in this department give them a wide range of expertise. One half of them eventually work in manufacturing companies as engineers in general management positions. The other half enter third-year classes of the university department to promote their abilities as mechanical engineers and increase their general human abilities.

The Engineers to Be Trained and the Educational Objectives in the Department of Mechanical Engineering

Mechanical engineering is a cross-disciplinary field forming the basis of technology for "Product Design". "Product Design" consists of the two phases: 1) machine design (the planning phase for manufacturing machine products), and 2) machine work (the phase for embodying products).

Machine design is an effusion of creative activities realized by consolidating the wisdom and experiences of mechanical engineers. It is therefore essential for students aspiring to be mechanical engineers to learn mathematics and physics, which constitute the basis for machine design technique and information technology. Furthermore, based on this science and technology, they must learn subjects related to the dynamics like "Material dynamics", "Hydrodynamics", "Thermodynamics", and "Mechanical dynamics".

Machine work is a sublime, creative process to embody the images of products created by machine design technicians for real products. Mechanical engineers assume heavy responsibilities for finding out and realizing the most appropriate machining conditions under the prescribed, restricted conditions concerning 1) economical efficiency, 2) quality, 3) term of work and 4) environmental preservation and safety. Students hoping to be mechanical engineers must learn not only practical skills on operation of production machinery, but also subjects connected directly with production engineering like "Manufacturing engineering", "Instrumentation engineering", "Control engineering", and "Production engineering".

Moreover, it is necessary for a mechanical engineer to acquire IT technology as a tool to accomplish "Product Design" effectively. In addition, to play an active part as a member of domestic and foreign "Product Design teams," communication skill and sociability on the basis of outlook on ethic are required. As for the students aiming at a mechanical engineer, nourishment of these ability must be necessary.

Engineer to Be Trained

An engineer who has basics scholarship to play an active part as a mechanical engineer in the global community and who learns information processing and analysis ability that can deal with a sudden change of social situation

Educational Objectives

(A) To exercise ethical practices.

(A-1) To possess basic ideas of ethical standards and practices, in addition to understanding the historical backgrounds, cultures and viewpoints worldwide. To comprehend social issues and environmental problems on a global scale.

(A-2) To exercise ethical practices mentioned above as a mechanical engineer whose responsibility within the sphere of the technology of mechanical engineering and its impact on the global environment is not diminished.

(A-3) To acquire health care ability and physical strength, to foster ability of appreciating arts, cooperativeness, creativity, and to enrich breadth of mind and finally his/her life, in order to become the engineer whose mind and body are healthy together.

(B) To acquire designing ability.

(B-1) To acquire the ability to understand problems of machine technology while realizing new challenges and opportunities in order to provide solutions voluntarily within a framework of ideas.

(B-2) To acquire the comprehensive designing ability to organize the results obtained in a paper, pursuing a plan steadily for analysis based on fundamental knowledge of mechanical engineering.

(C) To acquire communication skills.

(C-1) To acquire the ability to describe, present, and discuss in Japanese.

(C-2) To acquire the basic communication skill acceptable by international standards.

(D) To acquire the knowledge and ability of mechanical engineering, cross-disciplinary fields forming the basis of it and the surrounding cross-disciplinary fields.

(D-1) To acquire the fundamental knowledge of mathematics and natural science and the ability to solve problems with them.

(D-2) To acquire the fundamental knowledge and ability of the fundamental engineering (design and the system, information and logic, materials, and mechanics).

(D-3) To acquire the knowledge and ability of the cross-fields within the mechanical engineering structure and the surrounding cross-disciplinary ones (environment, creation, energy, measurement and control, safety, etc.)

(D-4) To acquire basics knowledge as a mechanical design engineer and to acquire the following four abilities for depth and systematization of knowledge

(1) Ability about the dynamics of materials to design the machinery whose strength is guaranteed and can be used safely

(2) Ability to grasp dynamic behavior of air or fluid, and to apply it to a mechanical design

(3) Ability to evaluate thermal pattern for power of machinery or its efficiency in terms of dynamics, and to apply it to a mechanical design

(4) Ability to understand dynamic behavior about motion or vibration of machinery to apply it to a mechanical design

(D-5) To develop the basic ability of combining the knowledge of mechanical engineering and different technical fields from mechanical engineering, and simultaneously stimulate student interest.

(E) To acquire information technology.

To acquire the skill of designing for the information processing system, fully utilizing information devices.

Curriculum of Department of Mechanical Engineering

1st	2nd	3rd	4th	5th
<Required Subjects>	<Required Subjects>	<Required Subjects>	<Required Subjects>	<Required Subjects>
Fundamentals of Manufacturing Engineering 3	Metal Cutting and Casting Process I 1	Applied Physics I 2	Applied Mathematics I 2	Production Engineering 1
(Subtotal) 3	Metal Cutting and Casting Process II 1	Fundamentals of Mechanics 2	Applied Mathematics II 1	Engineering Ethics 1
	Information Literacy 1	Mechanism 2	Applied Mathematics III 1	Graduation Research 6
	Machinery Design and Drafting I 2	Strength of Materials I 2	Applied Physics II 1	<Elective Subjects>
	Mechanical Engineering Practice I 3	Material Technology I 1	Machinery Dynamics I 1	Applied Physics III 2
	(Subtotal) 8	Instrumentation Technology 1	Strength of Materials II 1	Fluid Mechanics II 2
		Machine Design I 1	Strength of Materials III 1	Fluid Mechanics III 2
		Information Processing I 1	Fluid Mechanics I 2	Thermodynamics II 2
		Numerical Calculation 1	Thermodynamics I 2	Energy Engineering 2
		Machinery Design and Drafting II 2	Material Technology II 1	Heat Transfer 2
		Mechanical Engineering Experiment I 2	Metal Deformation Process I 1	Material Technology III 2
		Mechanical Engineering Practice II 3	Control Engineering I 1	Metal Deformation Process II 2
		(Subtotal) 20	Machine Design II 1	Control Engineering II 2
			Information Processing II 1	Introduction to Electrical and Electronic Engineering 2
			Mechanical Engineering Experiment II 2	Engineering Analysis 2
			Engineering Practice 3	Theory of Elasticity 2
			Topics of Mechanical Engineering 2	Theory of Plasticity 2
			(Subtotal) 25	System Engineering 2
				Mechatronics 2
				Robot Engineering 2
				Total Credits 32
				Total of Necessary Credits on Elective Subjects 22and more

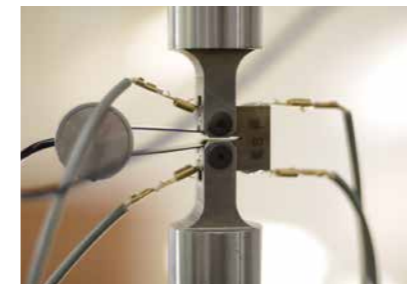


Mechaical Engineering Practice

Academic Staff

Title	Name	Degree	Subjects in charge
Professor	◎ (Chairman of Department) KATOH, Kohzoh	D. Eng.	Metal Deformation Processings
	OGURI, Hisakazu	M. Eng.	Strength of Materials
	ISHIMARU, Kazuhiro	D. Eng.	Thermodynamics
	※1 KATAMINE, Eiji	D. Eng.	Machine Design
	※2 YAMADA, Minoru	D. Eng.	Control Engineering
Associate Professor	MIYAFUJI, Yoshitaka	D. Eng.	Mechanical Engineering Practice
	※3 YAMAMOTO, Takahisa	D. Eng.	Heat Transfer
	NAKAYA, Jun	D. Eng.	Fluid Mechanics
	KOHNO, Takuya	D. Eng.	Applied Physics
Lecturer	SHIMAMOTO, Kumiko	D. Eng.	Material Technonology
	KUMADA, Keigo	D. Eng.	Machinery Design and Drafting

※1 Assistant Dean of Advance Course ※2 Director of Technical Education Division ※3 Director of International Affairs Office



Fatigue Test of Metallic Materials



Engineering Analysis



Fundamentals of Manufacturing Engineering

Department of Electrical and Computer Engineering

<http://www.gifu-nct.ac.jp/elec/>



Department of Electrical and Computer Engineering

The department was originally the Department of Electrical Engineering established in 1963. In the spring of 2000, the department was reorganized to become the Department of Electrical and Computer Engineering. The objectives of developing this department are to pursue and develop the newest technologies not only in electrical and electronic engineering, but also in information engineering, to train professionals for electronic and information industries. Two courses, electrical and electronic engineering course and computer engineering course, are designed for students who have completed their first 3-year study in order to give them the opportunity to obtain deeper knowledge of specialized fields according to students' individual needs.

The department's first 3-year curriculum concentrates on basic subjects in physics and mathematics along with subjects stressing the fundamentals of electrical, electronic and computer engineering, such as electronics, circuit theory, electromagnetics, electronic materials science, and programming languages. The curriculum also provides extensive laboratory work to enable students to become familiar with operating principles in related fields. A variety of laboratories equipped with workstations, computer networking terminals, lasers, communication systems, semiconductor manufacturing system, and other related equipment of the newest type are available.

Students of electrical and electronic engineering course are required to study specialized subjects, including advanced digital circuits and systems, microwave engineering, transmission engineering, and advanced electro-magnetics. Students of computer engineering course are required to study specialized subjects, including information theory, signal processing, data structures and algorithms, and mathematics in computer sciences. Moreover, a lot of elective subjects, such as optical engineering, control theory, opto-quantum electronics, network operating systems, artificial intelligence, and image processing are also provided. Ultimately, students can acquire competence to cope with the ever-progressing, high-technology industries. Further details on the Department of Electrical and Computer Engineering are available at our department web site: <http://www.gifu-nct.ac.jp/elec/index-e.html/>

The Educational Objectives of the Department of Electrical and Computer Engineering

In order to train an international and ethical engineer who can respond to the ever-progressing technical landscape, the Electrical and Information Engineering Department aims to provide our students with an education by developing a critical and fundamental understanding of technology within the multi-layered fields of electricity, electronics and information technology, which forms the foundation of the information society.

To achieve our goal we have introduced a curriculum that follows a path that allows for each student to individually select their own course of specialized study during the final fourth and fifth years of their technical education.

Our aim is to produce engineers by applying a curriculum that divides into two courses, namely, the Electric and Electronic Engineering Course and the Information Engineering Course. Additionally, our students strive to acquire an equal balance in fundamental knowledge encompassing every facet of electricity, the electronics, and information. Aspiring engineers will undergo thorough training in order to fulfill the professional requirements of his or her specialized trade.

The expression and the table below respectively show the image of "Engineer to Be Trained" and the educational objectives of the Electrical and Information Engineering with respect to the criteria set by the JABEE program:

Engineer to Be Trained

Engineers who acquired fundamental knowledge encompassing every facet of electricity, the electronics, and information in equal balance, and the ability to undergo thorough training in order to fulfill the professional requirements of his or her specialized trade.

Educational Objectives

(A) To exercise ethical practices.

(A-1) To possess basic ethical standards and practices, in addition to understanding the historical backgrounds, cultures and viewpoints worldwide. And to comprehend social issues and environmental problems on a global scale.

(A-2) To exercise basic ethical practices as an engineer who has increasing responsibility within the sphere of electricity, the electronics, and the information technology and its impact on the global environment.

(A-3) To possess the health and physical strength to be a healthy engineer. To become appreciative, cooperative, creative and imaginative, so as to live an affluent life.

(B) To acquire the ability to design.

(B-1) To acquire the ability to understand technical problems and/or new issues concerning electricity, the electronics, and the information technology while realizing new challenges and opportunities in order to provide solutions voluntarily within a framework of ideas.

(B-2) To acquire the comprehensive designing ability concerning electricity, electronics, and information technology to organize the results obtained in a paper, pursuing a plan steadily for analysis based on fundamental knowledge.

(C) To acquire skill in communicating.

(C-1) To acquire basic ability to describe, present, and discuss in Japanese.

(C-2) To acquire the basic communication skill acceptable by international standards.

(D) To acquire knowledge and the ability with in a specific interdisciplinary field in addition to outside domains that encompass electricity, electronics, and information engineering.

(D-1) To acquire the ability to solve problems with basic knowledge of mathematics and natural sciences.

(D-2) To acquire the fundamental knowledge and skills of design systems, information, logic, material, dynamics and technology.

(D-3) To acquire basic knowledge and applied ability in a common field (environment, energy, measurement, control, creation, and safety, etc.) to an interdisciplinary field in the surrounding field of electricity, the electron, and the information engineering.

(D-4) To acquire the basic knowledge of each specialized field in an electric, electronic course and the information course, and acquire the ability that problems can be solved based on the application of basic knowledge obtained in each course.

(1) To acquire the basic understanding of electronic, electronic and information technology and the ability to apply this knowledge.

(2) Electric and electronic course

To possess the ability to acquire the basic knowledge of electric and electronic engineering and the applied skills.

(3) Information engineering course

To possess the ability to acquire the basic knowledge of electronic and information engineering and the applied skills.

(E) To acquire information technology skills.

To master information instruments, and acquire the ability to complete construction of projects, and the reporting with an information processing system such as programming needed with in a specialized field.

Curriculum of Department of Electrical and Computer Engineering

1st	3rd	4th	5th	
(Required Subjects)	(Required Subjects)	(Required Subjects)	(Required Subjects)	(Elective Subjects)
Design Drafting 3 (Subtotal) 3	Applied Mathematics A 1 Applied Physics I 2 Electromagnetics 2 Electric 2 Electrical and Computer Engineering Fundamental Seminar 2 Logic in Computer Scienc 2 Programming and Its Seminar 2 Electrical and Computer Engineering Laboratories 3 (Subtotal) 8	Applied Mathematics B 2 Applied Mathematics C 1 Applied Mathematics D 1 Applied Physics I 2 Electromagnetics 1 Electronics I 2 Electrical and Computer Engineering Seminar I 1 Electrical and Computer Engineering Seminar II 1 Computer Networks 2 Switching Circuit Theory 1 Numerical Analysis 2 Signal Processing 2 Electrical and Computer Engineering Laboratories 2 Topics in Engineering Fundamentals I 1 Topics in Engineering Fundamentals II 1 (Subtotal) 22	Common Subjects Engineering Ethics 1 Graduation Research 6 (Subtotal) 7 Electrical and Electronic Course Electrical and Electronic Engineering Laboratories 4 (Subtotal) 4 Computer Engineering Course Computer Engineering Laboratories 4 (Subtotal) 4	Common Subjects Power Generation and Transformation Engineering 2 Laws and Regulations of Electricity 2 Power Electronics 2 Power Electronics 2 Electrical Materials 2 Control Theory 2 Opto-Quantum Electronics 2 Radio Wave Propagation and Its Electronic Devices 2 Electronic Measurements 2 Electronics II 2 Applied Physics II 2 Communication Engineering 2 Software Engineering 2 Programming Language Theory 2 Operating Systems and Databases 2 Computer Graphics and Interfaces 2 (Subtotal) 32
2nd	(Required Subjects) Electrical and Computer Engineering Laboratories 3 (Subtotal) 8	(Required Subjects) Applied Mathematics B 2 Applied Mathematics C 1 Applied Mathematics D 1 Applied Physics I 2 Electromagnetics 1 Electronics I 2 Electrical and Computer Engineering Seminar I 1 Electrical and Computer Engineering Seminar II 1 Computer Networks 2 Switching Circuit Theory 1 Numerical Analysis 2 Signal Processing 2 Electrical and Computer Engineering Laboratories 2 Topics in Engineering Fundamentals I 1 Topics in Engineering Fundamentals II 1 (Subtotal) 22	Electrical and Electronic Course Electrical and Electronic Engineering Laboratories 2 Electromagnetics II 1 Electric 1 Electric Machinery 2 (Subtotal) 6	Computer Engineering Course Computer Engineering Laboratories 2 Information Theory 1 Data Structures and Algorithms 1 Formal Language Theory 1 Mathematics in Computer Science 1 (Subtotal) 6



Tesla coil made by students



Alumni Lecturers



Alumni Lecturers

Academic Staff

Title	Name	Degree	Subjects in charge
Professor	TOKORO, Tetsuro	D. Eng.	High Voltage Engineering, Electric Circuits I
	KUMAZAKI, Hironori	D. Eng.	Electromagnetics I · II, Engineering Ethics
	YASUDA, Makoto	D. Eng.	Mathematics in Computer Science, Artificial Intelligence
	(◎) DEGUCHI, Toshinori	D. Eng.	Data Structures and Algorithms Formal Language Theory
	TOMITA, Mutuwo	D. Eng.	Power Electronics, Power Generation and Transformation Engineering
Associate Professor	(※1) HABUCHI, Hitoe	D. Eng.	Electromagnetics I · II, Optical Engineering
	(※2) YAMADA, Hirobumi	D. Eng.	Programming and Its Seminar, Information Theory
	TOMITA, Isao	D. Sc.	Electrical and Computer Engineering Fundamental Seminar, Applied Physics I · II
	IIDA, Tamio	D. Eng.	Electric Circuits I · II, Electronics I
	TAJIMA, Koji	D. Eng.	Computer Architecture, Software Engineering
Assistant Professor	SHIRAKI, Eiji	D. Eng.	Electrical and Computer Engineering Laboratories, Opto-Quantum Electronics
	SHIBATA, Yoshihide	D. Eng.	Electrical and Computer Engineering Laboratories, Scientific and Technical English
	HORIUCHI, Sakie	D. Eng.	Electrical and Computer Engineering Laboratories, Operating Systems and Databases

◎ Chairman of Department ※1 Director of Techno Center (Director of Technical Development Division) ※2 Director of Computer Center

Department of Electronic Control Engineering

<http://www.gifu-nct.ac.jp/elcon/>



Department of Electronic Control Engineering

In the modern society, development is earnestly desired with a system which provides humans with sufficient aid not only in simple work but also in intelligent jobs, and furthermore allows a variety of operations to be conducted for humans. Humans can grasp the affairs surrounding them through their sensory organs including eyes and ears, and can carry out various kinds of actions by thinking with their brains accompanied with the use of their hands and feet. Also in order to make use of the maneuvers referred above, by means of any devices, similar processings such as sensing and perception (eyes and ears), recognition and judgment (brains), control (hands and feet), etc. come to be required. Urgent appearance is required with intelligence-oriented systems allowing such processings to be completed autonomously without using human hands throughout the whole course of the operations. Intelligence-oriented systems are on the threshold of realization in all the fields ranging from establishment of production facilities in factories and plants, manufacture and construction of automobiles, aircraft, electronic apparatus, intelligent buildings, communication systems, medical equipment, promotion of bio-technology, etc. the production of household electric appliances. In our electronic control engineering department, fundamental technology to develop systems to conduct such intelligent actions are dealt with an extensive scale. In this department, specific subjects related to measurement, control, information, and computers together with advanced theories concerning robotics engineering, system control engineering, etc. are also learned in addition to acquisition of the fundamental knowledge of electric, electronic, and mechanic systems. Meanwhile, importance is also attached to experiments and exercises, and thorough performances are also being made in our experiments and exercises of electronic control engineering, robotics control, information processings, etc.

As stated above, our department aims at educating those engineers who will be competent enough to be engaged in development of creative systems which are designed to conduct intelligent actions for humans by accomplishing realization of the systems oriented toward intelligence by means of electronic-control /information-control technology.

The Educational Objectives of the Department of Electronic Control Engineering

Our aim is to cultivate engineers who are able to respond in a flexible manner to various technologies and meet the challenges of recent progress made in electronic control technology. Our educational objectives are to foster students who can familiarize themselves with the advancement and segmentation of electronic control technology and operate electronic control systems by applying the fundamental skills they have acquired. The social role of the department is to cultivate human resources who can make use of comprehensive skills of mechanics, electrics, electronics, and information technology and creatively develop more advanced and environmentally friendly intellectual systems.

Based on the above criteria, the Department of Electronic Control Engineering upholds its "Engineer to Be Trained" and its "Educational Objectives" below:

Engineer to Be Trained

An engineer who has acquired the fundamental knowledge and perspectives of mechanics, electrics, electronics, and information technology. An engineer who, on the basis of electronic control and information technology, has acquired the creative ability to improve and develop technology in order to serve the needs of the international community.

Educational Objectives

(A) To exercise ethical practices.

(A-1) To possess ethical standards and practices and comprehend social issues, in addition to understanding the historical backgrounds, cultures and viewpoints on a worldwide basis.

(A-2) To exercise ethical practices as an engineer who has an increasing responsibility within the sphere of electronic control engineering and its impact on the global environment.

(A-3) To exercise good health care and have the physical strength to be a physically healthy engineer. To enrich his/her life, as a mentally healthy engineer, by cultivating the appreciation of art, the spirit of cooperation, creativity, and imagination.

(B) To acquire designing ability.

(B-1) To acquire the ability to understand technical applications in electrics, electronics, information and control technology, and mechanics while realizing new challenges and opportunities in order to provide solutions voluntarily within a framework of ideas.

(B-2) To acquire the comprehensive designing ability to organize the results obtained in a paper. In addition to pursue a plan steadily for analysis based on fundamental knowledge of electrics, electronics, information and control technology, and mechanics.

(C) To acquire communication skills.

(C-1) To acquire the ability to describe, present, and discuss in Japanese.

(C-2) To acquire the basic communication skill acceptable by international standards.

(D) To acquire the knowledge and ability of electronic control engineering and cross-disciplinary fields forming an understanding of the surrounding cross-disciplinary fields.

(D-1) To acquire the fundamental knowledge of mathematics and natural science and the ability to solve problems with them.

(D-2) To acquire the fundamental knowledge and practical skills of engineering such as the design, system, information, logic, materials, and dynamics.

(D-3) To acquire the fundamental knowledge and practical skills of the cross-fields between the electronic control engineering fields and the surrounding cross-disciplinary ones (environment, energy, measurement and control, creation, safety, etc.).

(D-4) To acquire the basic knowledge of electronic control engineering, and develop the ability to operate electronic control systems by applying this basic knowledge. In addition, the ability to master the technical knowledge and skills to serve the social needs.

(1) To acquire the basic knowledge and viewpoints in the field of electronic control, on the basis of electrics and electronics.

(E) To acquire information technology.

To acquire the ability to perform, plan, develop and do representations within the information processing system. For example programming skills necessary in his/her specialized field, to fully utilize information devices.

Curriculum of Department of Electronic Control Engineering

1st		2nd		3rd		4th		5th	
〈Required Subjects〉		〈Required Subjects〉		〈Required Subjects〉		〈Required Subjects〉		〈Required Subjects〉	
Introduction to Electronic Control Engineering	1	Information Processing I	2	Applied Mathematics A	1	Applied Mathematics B	2	Systems Control I	2
Workshop Practice I	2	Fundamentals of Electricity	1	Applied Physics I	2	Applied Mathematics C	1	Electric Power Devices I	2
(Subtotal)	3	Digital Circuits I	1	Information Processing II	2	Applied Mathematics D	1	Electronic Devices I	2
		Design and Drafting	2	Electromagnetics I	2	Applied Physics I	2	Robotics I	2
		Workshop Practice II	2	Electric Circuits I	2	Information Processing III	2	Applied Computer Engineering	2
		(Subtotal)	8	Electronic Circuits	2	Electromagnetics II	2	Engineering Ethics	1
				Digital Circuits II	1	Electric Circuits II	1	Graduation Research	9
				Kinematics of Machinery I	2	Measurement Engineering	2	(Subtotal)	20
				Strength of Materials I	2	Control Engineering	2	〈Elective Subjects〉	
				Engineering Experiments I	4	Kinematics of Machinery II	1	Applied Physics II	2
				(Subtotal)	20	Strength of Materials II	1	Systems Control II	2
						Engineering Experiments II	4	Electric Power Devices II	2
						Advanced Engineering Seminar	2	Electronic Devices II	2
						Fundamental Research of Electronic Control	2	Robotics II	2
						(Subtotal)	25	Applied Electronics	2
								Electric Circuits III	2
								Electronic Control Circuits	2
								Electronics	2
								Computer Architecture	2
								Kinematics of Machinery III	2
								Total of Credits	22
								Total of Necessary Credits on Elective Subjects	10 and more

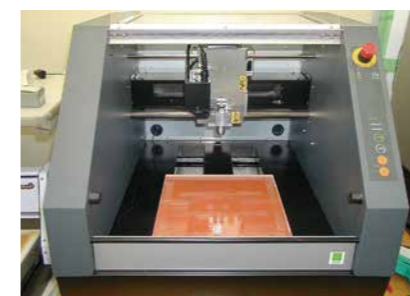


Advanced Engineering Experiments

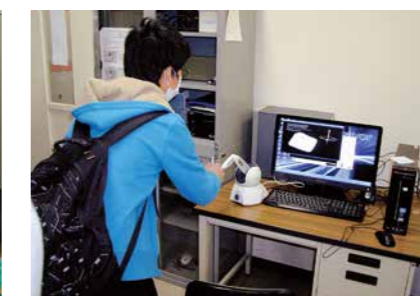
Academic Staff

Title	Name	Degree	Subjects in charge
Professor	◎ (Chairman of Department) FUJITA, Kazuhiko	D. Eng.	Electromagnetics Electronic Devices
	MORIGUCHI, Hirofumi	D. Sci.	Applied Mathematics
	○ KITAGAWA, Hideo	D. Eng.	Robotics Applied Robotics
	FUKUNAGA, Tetsuya	D. Eng.	Electromagnetics Computer Architecture
Associate Professor	ENDO, Noboru	D. Eng.	Systems Control Information Processing
	KOBAYASHI, Yoshimitsu	D. Eng.	Kinematics of Machinery Engineering Experiments
Lecturer	KURIYAMA, Yoshifumi	D. Eng.	Workshop Practice Strength of Materials
Assistant Professor	KUROYAMA, Takano	D. Eng.	Control Engineering Measurement Engineering
	OGISO, Satoki	D.Hum.Inf., D.Eng.	Engineering Experiments Electronic Circuits

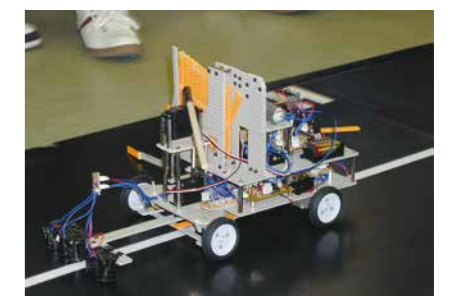
○ Dean of Research Affairs



Three-dimensional processing machine



Haptic Device



Lancer robot

Department of Civil Engineering

<http://www.gifu-nct.ac.jp/civil/>



Department of Civil Engineering

Natural disasters have often occurred in recent Japan. Especially, the unprecedented big earthquake and tsunami, called 'Tohoku Earthquake and Tsunami' on Mar. 11, 2011, recorded the greatest magnitude and brought extensive damages to the eastern part of Japan. Through the experience, we did realize that vulnerability to serious natural disasters still exists in our national land. In the damaged area, many engineers including some graduates of the Department of Civil Engineering are still working hard to reconstruct the infrastructure.

The Department of Civil Engineering in Gifu National College of Technology offers programs to learn technology concerned with 'Disaster Prevention' for protecting national land from natural disasters, such as 'Infrastructure Services' for decreasing environmental impact and 'Sustainable Urban Planning' for symbiotic relationship between human and nature.

The students graduated from this department mainly take professional career related to disaster prevention plans and infrastructure services (government or local officials, employees of energy, transport and information technology companies) or design, construction and management of infrastructure facilities (construction companies, etc.). Both careers should contribute to making the society comfortable and safe. We believe that studying civil engineering is worthy of learning if you want to contribute to our society with strong public spirit.

The Educational Objectives of the Department of Civil Engineering

Things called "infrastructure" are, for example, those supporting ordinary life in our community, such as the use of a car, electricity, and drinking water. In addition, to supporting safe and smooth social activities such as communication, distribution of goods and transportation, and, more importantly, those protecting our natural environment from natural disasters. All of them are absolutely essential for us and they will never disappearing in future. Also, to build a mechanism for achieving our objectives within the realm of "infrastructure improvement".

Japan's world's preeminent technology has significantly contributed not only to Japan but to other countries. However, in future, further consideration of acceptable environmental limits will be a high-priority issue. For sustainable human development, in coexistence with nature, it is hoped that engineers will be fostered who have the ability to realize creative urban development and infrastructure improvement in harmony with the regional history and culture.

Based on the above criteria, the Department of Civil Engineering upholds its "Engineer to Be Trained" and its "Educational Objectives" below:

Engineer to Be Trained

The department's goal is to develop an engineer who has acquired basic knowledge and concepts concerning infrastructure improvement and methods, and the means to protect our natural environment and support a comfortable, safe living environment. The Engineer to be trained will have utmost concern for environmental load reduction and sustainable development with the ability to positively promote infrastructure improvement to support human development.

Educational Objectives

(A) To possess ethical standards and practices.

(A-1) To possess ethical standards and practices and comprehend social issues, in addition to understanding the historical backgrounds, cultures and viewpoints worldwide.

(A-2) To recognize the necessity of ethics for an engineer engaged in civil engineering.

(A-3) To exercise good health care and have the physical strength to be a healthy engineer. To enrich his/her life, as a mentally healthy engineer, by cultivating the appreciation of art, the spirit of cooperation, creativity, and imagination.

(B) To acquire the designing ability.

(B-1) To acquire the ability to understand the technical problems and new themes concerning civil engineering and to make plans to voluntarily solve the problems.

(B-2) To acquire the basic ability to organize the results that have been achieved in a paper and to pursue a plan for analysis and practice, based on fundamental knowledge of civil engineering.

(C) To acquire communication skills.

(C-1) To acquire the ability to describe, present, and discuss in Japanese.

(C-2) To acquire the basic communication skill acceptable by international standards.

(D) To acquire the knowledge and ability of civil engineering, cross-disciplinary fields forming the basis of it and the surrounding cross-disciplinary fields.

(D-1) To acquire the basic knowledge of mathematics and natural science and the ability to solve problems with them.

(D-2) To acquire the basic knowledge of engineering such as the design, system, information, logic, materials, dynamics.

(D-3) To acquire knowledge and skills in common fields of Environmental System Design Engineering (environmental, energy, measurement/control, creation, safety, etc.)

(D-4) To acquire the following basic knowledge and concepts of civil engineering as his/her specialized field:

(1) To acquire basic knowledge and concepts concerning infrastructure improvement to protect our national land from natural disasters and support a comfortable, safe living environment.

(2) To acquire basic knowledge and concept concerning the creation of "sustainable urban development" in harmony with nature and in consideration of environmental load reduction.

(D-5) To be interested in some other fields within the main four fields of civil engineering (structure, hydraulics, soil, and planning/environment) different from their specialized skills, and to develop the basic ability to combine their knowledge of their skilled field with these other fields.

(E) To acquire information technology.

To acquire the ability of performing, planning, development and presentation with the information processing system in his/her specialized field, fully utilizing information devices. Example would be computer programming.

Curriculum of Department of Civil Engineering

1st		2nd		3rd		4th		5th	
〈Required Subjects〉		〈Required Subjects〉		〈Required Subjects〉		〈Required Subjects〉		〈Required Subjects〉	
Introduction to the Civil Engineering	2	Surveying I	1	Applied Physics	2	Applied Mathematics	2	Experiment in Civil Engineering	1.5
Computer Literacy	1	Surveying Exercises I	2	Surveying II	1	Numerical Analysis	2	Steel Structure	2
(Subtotal)	3	Fundamental drawing	2	Surveying Exercises II	2	Spatial Information Engineering	1	Sustainable Society Formation	2
		Fundamental Materials of Construction	1	Fundamental Experiments I	3	Design and drawing	2	Management of Construction	1
		Fundamental Mechanics	2	Concrete Engineering I	2	Fundamental Experiments II	3	Exercise in Civil Engineering II	1.5
		(Subtotal)	8	Structural Mechanics I	2	Concrete Engineering II	2	Engineering Ethics	1
				Hydraulics I	2	Structural Mechanics II	3	Graduation Research	8
				Soil Mechanics I	2	Hydraulics II	3	(Subtotal)	17
				Planning Theory in Civil Engineering I	2	Soil Mechanics II	2	〈Elective Subjects〉	
				Environmental Engineering I	2	Engineering geology	1	Structural Analysis	2
				(Subtotal)	20	Planning Theory in Civil Engineering II	1	Practical Concrete Engineering	2
						Environmental Engineering II	2	Geotechnical Engineering	2
						Urban Engineering	1	River Basin Management	2
						Disaster Prevention Engineering	1	Water Resources Engineering	2
						Infrastructure Engineering	1	Ecosystem Management	2
						Exercise in Civil Engineering I	1	Urban and Traffic Planning	2
						(Subtotal)	28	Energy Engineering	2
								Total of Credits	16
								Total of Necessary Credits on Elective Subjects	12 and more



Surveying Exercise

Academic Staff

Title	Name	Degree	Subjects in charge
Professor	IWASE, Hiroyuki	D. Eng.	Concrete Engineering Practical Concrete Engineering
	(○) WADA, Kiyoshi	D. Eng.	Hydraulic Engineering Hydraulics
	◎ (Chairman of Department) YOSHIMURA, Yuji	D. Eng.	Soil Mechanics Geotechnical Engineering
	SUZUKI, Masato	D. Eng.	Planning Theory in Civil Engineering Numerical Analysis
	MIZUNO, Kazunori	D. Eng.	Soil Mechanics Fundamental Mechanics
Associate Professor	HIROSE, Yasuyuki	M. Eng.	Surveying Disaster Prevention Engineering
	SUMINO, Haruhiko	D. Eng.	Environmental Engineering Fundamental Experiments
	MIZUNO, Yoshinori	D. Eng.	Structural Mechanics Design and drawing
	WATANABE, Naohiko	D. Eng.	Applied Mathematics Applied Physics
Assistant Professor	KIKU, Masami	D. Eng.	Hydraulics Fundamental Experiments
	KAWABATA, Mituaki	D. Eng.	Urban Engineering Urban and Traffic Planning

○ Dean of Academic Affairs



Tsunami wave-making experiment



Exhibit



Lab work

Department of Architecture

<http://www.gifu-nct.ac.jp/archi/>



Department of Architecture

Architecture is often said to be a receptacle in which human life and culture is developing. It is created as a combined product of art and engineering, and at the same time it must be safe, beautiful and functional.

Based on this idea, the department of architecture offers the curriculum consisting of various fundamental subjects which comprehend social sciences, humanities and fine arts, and of specialized subjects such as structural engineering, construction engineering and environmental engineering. Hence, students can choose any field which makes the most of their personalities and talents and satisfies their desires of learning and creating.

Completing the five-year program, students are expected to take active roles in building industries as designers, planners, engineers and builders.

Students will be qualified for the examination to become second class architect, which is a legal license of Japan, immediately after graduation, then they will be candidates for first class architect four years later.

The Educational Objectives of the Department of Architecture

The department of Architecture aims to educate practical engineers while cultivating creative originality, by transferring the comprehensive skills of technology and culture. These skills are related to construction techniques of building and city space, environmental adjustment and constructive safety, for the purpose of constructing social space.

Based on the above criteria, the Department of Architecture upholds its "Engineer to Be Trained" and its "Educational Objectives" below:

Engineer to Be Trained

An engineer who has, and comprehensively develops, fundamental technology and culture on the construction techniques of building and city space, environmental adjustment and constructive safety, for the purpose of constructing social space.

Educational Objectives

(A) To possess ethical standards and practices.

(A-1) To possess ethical standards and practices and comprehend social issues, in addition to understanding the historical backgrounds, cultures and viewpoints worldwide.

(A-2) To exercise ethical standards and practices as an engineer, in addition to understanding the historical backgrounds and cultures in addition to comprehending social issues and environmental problems caused by construction technology.

(A-3) To exercise good health care practices and have the physical strength to be a physically healthy engineer. To enrich his/her life, as a mentally healthy engineer, by cultivating the appreciation of art, the spirit of cooperation, creativity, and imagination

(B) To acquire the ability to design.

(B-1) To acquire the ability to understand the technical problems and new themes concerning architecture and to make plans to solve the problems voluntarily using a wide variety of ideas.

(B-2) To acquire the comprehensive ability to design and organize the results in a report or in a designing plan. In addition to successfully complete these plans based on their fundamental knowledge.

(C) To acquire communication skills.

(C-1) To acquire the ability to describe, present, and discuss in Japanese.

(C-2) To acquire the basic communication skill acceptable by international standards.

(D) To acquire the knowledge and ability within a specialized field.

(D-1) To acquire the fundamental knowledge of mathematics and natural science and the ability to solve problems with them.

(D-2) To acquire the fundamental knowledge and practical skills of engineering such as the design, information, materials and dynamics.

(D-3) To acquire the fundamental knowledge and practical skills of the cross-fields between the architecture fields and the surrounding cross-disciplinary ones (environment, energy, measurement, safety, etc.).

(D-4) To acquire the fundamental knowledge of the technical fields of architecture and the necessary ability and skills to systematize them in the following spheres:

(1) The necessary skills for designing, by developing social and local viewpoints related to architecture and city life, and by acquiring the skill of planning better living space from functional and artistic viewpoints.

(2) The necessary skills for designing, by acquiring the methods of estimating, assessing and adjusting environmental resources to maintain the proper environment for saving energy.

(3) The necessary skills for design, by planning structurally safe building space and construction form for sure social activities within a building's interior and exterior.

(E) To acquire information technology.

To represent and provide explanation of previously mentioned topics by fully utilizing information devices.

Curriculum of Department of Architecture

1st	2nd	3rd	4th	5th
<Required Subjects>	<Required Subjects>	<Required Subjects>	<Required Subjects>	<Required Subjects>
Introduction to Architecture 1	Construction Methods II 1	Applied Physics I 2	Applied Mathematics A 2	Reinforced Concrete Structure II 1
Construction Methods I 1	Introduction to Spatial Design 1	Digital Design I 1	Applied Mathematics B 1	Steel Structure II 1
Architectural Drawing I 2	Introduction to Interior Design 1	Digital Design II 1	Applied Physics II 1	Environment Design 1
(Subtotal) 4	History of Architecture I 2	Information Processing 1	Structural Mechanics II 2	Building Production 2
	Architectural Drawing II 2	Structural Mechanics I 2	Building Materials I 1	Building Law 2
	(Subtotal) 7	Strength of Materials 1	Reinforced Concrete Structure I 2	Surveying 2
		Wooden Structure 1	Steel Structure I 2	Disaster Prevention Engineering 1
		Interior Design 1	Interior Planning and Design II 2	Graduation Research 8
		Interior Planning and Design I 1	History of Architecture II 1	(Subtotal) 18
		Architectural Planning I 2	Architectural Planning II 2	<Elective Subjects>
		Fundamentals for Environment Engineering 1	Urban and Regional Planning 2	Soil Mechanics and Foundation Engineering 2
		Planning and Design I 4	Environmental Society 1	Structural Design 2
		Experiment of Environmental Engineering 1	Environment Engineering 2	Advanced Topics in Planning 2
		Experiment of Structural Engineering 1	Building Equipment 2	Participative Design 2
		(Subtotal) 20	Planning and Design II 4	History of Architecture III 2
			Experiment of Architectural Engineering 1	Planning and Design III 2
			Engineering Ethics of Architecture 1	Building Equipment Practice 2
			(Subtotal) 29	Building Materials II 2
				Composite structure 2
				Total of Credits 18
				Total of Necessary Credits on Elective Subjects 8 and more

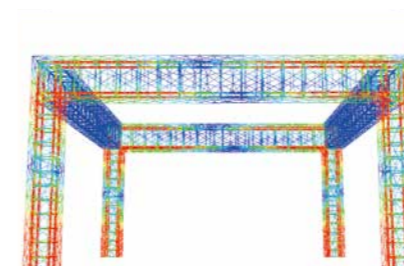


Observation of the building during construction

Academic Staff

Title	Name	Degree	Subjects in charge
Professor	○(Dean of Advanced Course) INUKAI, Toshitsugu	D. Eng.	Building Materials Reinforced Concrete Structure
	◎(Chairman of Department) ※1 TSURUTA, Yoshiko	D. Eng.	Urban and Regional Planning Planning and Design
	OGAWA, Nobuyuki	D. Eng.	Applied Physics Statistical Mechanics
	※2 SHIBATA, Ryouichi	D. Eng.	Structural Mechanics Information Processing
Associate Professor	AOKI, Tetsu	D. Eng.	Environmental Engineering Architectural Equipment
	IMADA, Taichiro	M. Eng.	Planning & Design Digital Design
	SAKURAGI, Koshi	D. Eng.	Planning & Design Architectural Design
Assistant Professor	SHIMIZU, Takahiro	D. Eng.	History of Architecture Interior Design
	ISHIKAWA, Ayumi	D. Eng.	Environmental Engineering Environmental Equipment
	YAMAMOTO, Shogo	D. Eng.	Reinforced Concrete Structure

※1 Director of Gender Equality Office ※2 Director of Library



Numerical Experimentation of RC Structure



Experiment of Architectural Structure



Interior Design

Advanced Course

<http://www.gifu-nct.ac.jp/senkoka/>



Advanced Course

The Advanced Course provides opportunities of acquiring Bachelor's degree in Engineering for undergraduate students under the courses completed within two calendar years.

The Course at National Institute of Technology, Gifu College, diversified into both academic training and engineering experience on the basis of a five-year course of study, supervises many researches and designoriented planning's through one advanced course: "Advanced Course for Interdisciplinary Technology Development."

The Advanced Course intends to cultivate not only technological potential for creative talent and refined insight into social systems but also rich human character, which are all indispensable to competent engineers.

Advanced Course for Interdisciplinary Technology Development

On the basis of knowledge acquired during the five-year course in the Departments of Mechanical, Electrical, Information, Electronic Control and Civil Engineering and Architecture, this advanced course offers many subjects required for interdisciplinary technology development. This course aims at producing engineers who can contribute to the sustainable development of the world, based on the comprehensive design skills necessary for creating products, as well as problem-solving means integrated with newly acquired technology. In addition, Cooperation education program with Toyohashi University of Technology uses its educational resources effectively in order to develop cross-cutting and hands-on engineers who will be active in various fields such as communal societies after graduation.

The Image of "Engineer in Training" and the Educational Objectives of the Faculty of Advanced Engineering

For the development of humanity, increased awareness must be given to the prevention of depleting resources for production and diffusion of contaminated matters that affect the ecosystem on the earth. For this reason, future "Product Design" concepts must give special consideration to preserving the global environment while simultaneously promoting the creation of a recycling society. Additional attention will be granted to this artificial environment supporting human labor and intellectual activities for the betterment of society.

The expression and the table below respectively show the image of "Engineer in Training" and the educational objectives of the Faculty of Advanced Engineering.

Engineer in Training

Advanced Course for Interdisciplinary Technology Development

This course aims at producing engineers who promote better understanding of their specialized fields, understand technology systems of different fields, and can contribute to the sustainable development of the world, based on the comprehensive design skills necessary for creating products, as well as problem-solving means integrated with mechanical, electrical, information, electronic control, civil engineering and architecture. Cooperation education program develops cross-cutting and hands-on engineers who have a great curiosity and expertise about scientific technology, and independently and diligently learn their specialized knowledge and skills and work on technological innovations. In the future, they will succeed in a variety of communal societies.

Educational Objectives

(A) To exercise ethical practices.

(A-1) To possess ethical standards and practices to comprehend social issues and environmental problems on a global scale.

(A-2) To exercise ethical practices as an engineer whose responsibility within the sphere of technology and its impact on the global environment is not diminished.

(B) To acquire the designing ability.

(B-1) To acquire the ability to understand technical problems and/or new issues in practice while realizing new challenges and opportunities in order to provide solutions voluntarily within a framework of ideas.

(B-2) To acquire the comprehensive designing and teamwork ability to organize the results obtained in a paper, pursuing a plan steadily for analysis based on fundamental knowledge.

(C) To acquire communication skill.

(C-1) To acquire the ability to describe, present and discuss in Japanese.

(C-2) To acquire the basic communication skill acceptable by international standards.

(D) To acquire technical knowledge.

(D-1) To acquire the ability to solve problems with basic knowledge of mathematics and natural sciences.

(D-2) To acquire the advanced knowledge and skills of fundamental engineering (design system, information logic, material biology, dynamics and social technology).

(D-3) To acquire the advanced knowledge and applied ability in a common field of Environmental System Design Engineering (environment, creation, energy, measurement, control and safety, etc.).

(D-4) To acquire the more advanced knowledge of each specialized field.

(D-5) To acquire the ability to develop the required system with consideration to environmental issues and teamwork ability combining the knowledge of the skilled specialized field as well as full comprehension of additional varied fields.

(E) To acquire information technology skills.

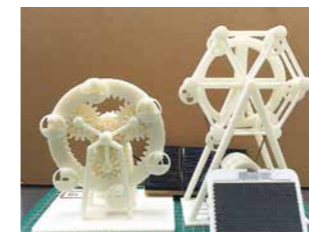
To acquire the skill of developing programs for the specialized field, fully utilizing information devices.

Curriculum

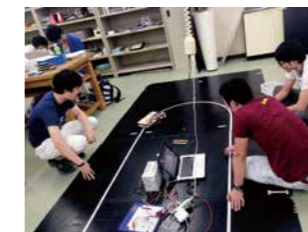
Advanced Course for Interdisciplinary Technology Development

1st					
General Subjects		Specialized-Foundation Subjects		Specialized-Advanced Subjects	
〈Required Subjects〉		〈Required Subjects〉		〈Required Subjects〉	
Advanced English 1	2	Life Science	2	Advanced Experiment	4
Advanced English 2	2	Engineering of Information Processing Devices	2	Practical Training 1	2
(Total of Credits on Required Subjects)	4	Applied Physics	2	Graduation Thesis 1	6
〈Elective Subject〉		(Total of Credits on equired Subjects)		(Total of Credits on Required Subjects)	
Introduction to Advanced Mathematics	2	〈Elective Subject〉		〈Elective Subjects〉	
(Total of Credits on Elective Subjects)	2	International Practical Training 1	1	Medical and Welfare Engineering	2
		Computational Mechanics	2	Aerospace Engineering	2
		Ecological Engineering	2	Architectural Renovation Design Methodology	2
		Quantum Mechanics	2	Advanced Sustainable Society	2
		Advanced Topics in Applied Mathematics	2	Environmental Material Science	2
		Corporate Management Introduction	2	Diffusion Phenomena	2
		Science Literacy Education Practice	2	Circuit Theory	2
		(Total of Credits on Elective Subjects)	13	Fundamentals of Digital Systems	2
				Infrastructure Planning	2
				Advanced Structural Analysis	2
				Environmental Control Engineering	2
				Practical Training 2	1
				(Total of Credits on Elective Subjects)	23

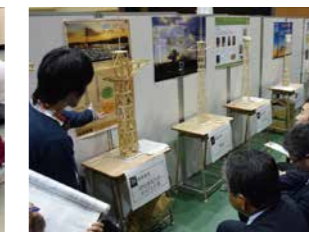
2nd					
General Subjects		Specialized-Foundation Subjects		Specialized-Advanced Subjects	
〈Required Subjects〉		〈Required Subjects〉		〈Required Subjects〉	
Social Ethics	2	Material Chemistry	2	Graduation Thesis 2	8
(Total of Credits on Required Subjects)	2	Creative Engineering Practice	2	(Total of Credits on Required Subjects)	8
〈Elective Subject〉		(Total of Credits on Required Subjects)		〈Elective Subject〉	
Literature	2	〈Elective Subject〉		Image Information Processing	2
English Practice 1	1	International Practical Training 2	1	Advanced Mechatronics	2
English Practice 2	1	Human Interface Design	2	Aerodynamics	2
(Total of Credits on Elective Subjects)	4	Statistical Mechanics	2	Material Analysis	2
		Information Engineering	2	Advanced New Energy	2
		Project Management	2	Maintenance and Management	2
		Introduction to Advanced Experiments	2	Environmental Planning	2
		(Total of Credits on Elective Subjects)	11	Advanced Topics of Electric Machinery	2
				Water Management Engineering	2
				Advanced Random Vibration for Civil Engineering	2
				Theory of Urban Planning and Design	2
				(Total of Credits on Elective Subjects)	22



Practice of 3D printing



Advanced Experiment



Wooden Tower created by students at Design Competition



Academic Calendar

April

First Semester. Entrance Ceremony
Freshmen School Orientation Annual Health Examination



Athletic Meet

May

Dormitory Festival
Sports tournament Leaders Workshop



Robot Contest



Study Tour

June

Mid-Semester Examination
Book Hunting

July

Tokai Region Inter-Collegiate Athletic Meet
Term-End Examination



Dormitory Festival

August

Open campus
Summer Vacation begins.
All-Japan Inter-Collegiate Athletic Competition



College Festival



Graduation Ceremony

September

Summer Vacation ends.
First Semester ends.

October

Second Semester begins. College Festival
Tokai, Hokuriku region Robot Contest
Sports tournament
Programming Contest



Book Hunting



Dormitory Festival

November

Study Tour
(for the 3rd and 4th year students)
Library Awards
Mid-Semester Examination
Tokai, Hokuriku region English Presentation Contest
National Robot Contest

December

Winter Vacation begins.
Design Competition



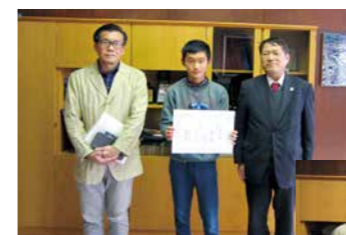
Entrance Ceremony



Sports tournament

January

Winter Vacation ends.
English Presentation Contest



Library Awards

February

College Entrance Examination
Term-End Examination

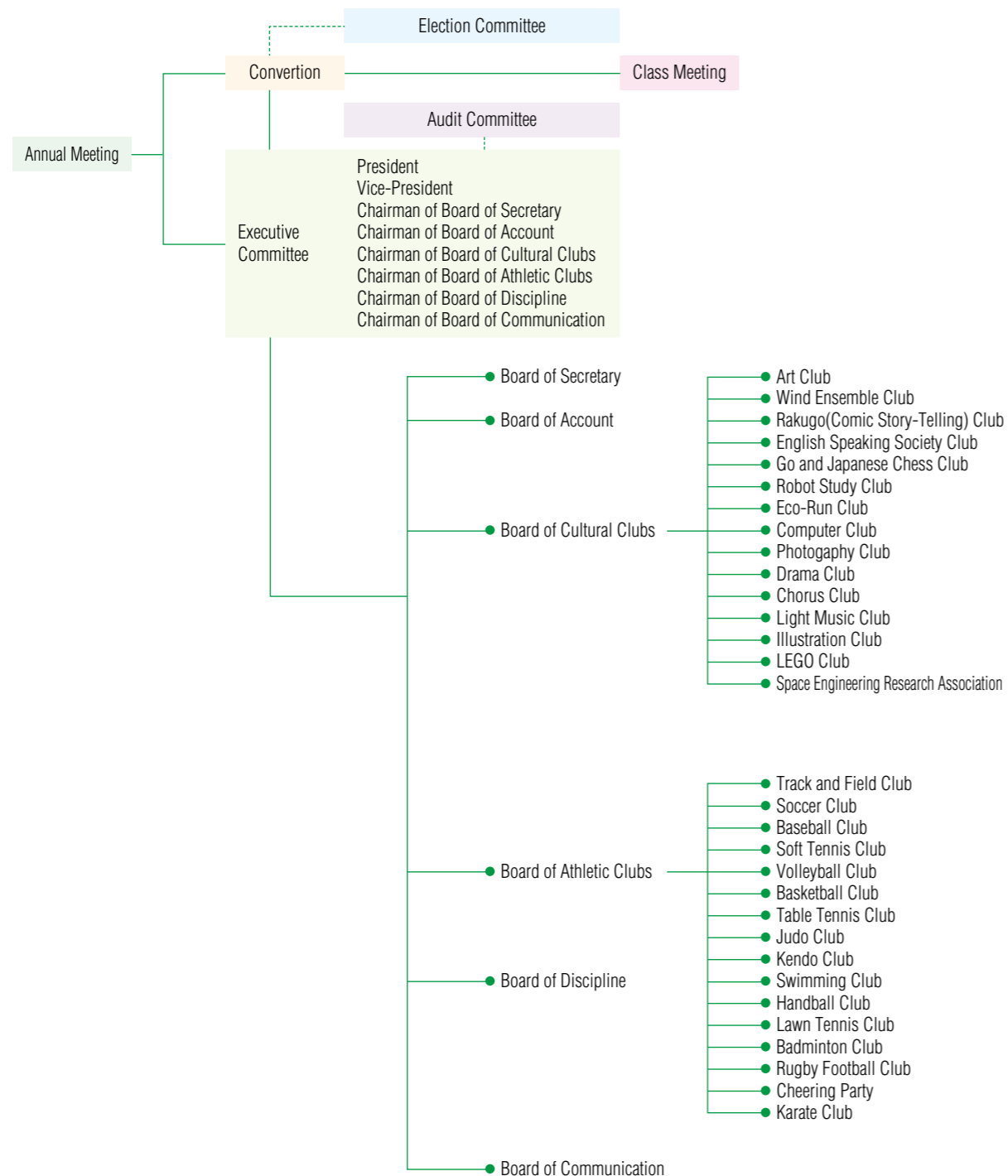
March

Graduation Ceremony
Second Semester ends.

The Student Council aims at contributing to the fulfillment of the educational purposes of the college, offering opportunities to students for voluntary activities under the guidance of instructors. To achieve this aim, the Student Council makes every effort:

- ① to secure a happy, enriched and disciplined college life and to maintain traditional school spirit.
- ② to develop personality by cultivating sound hobbies and rich cultural experiences.
- ③ to promote mental and physical health by effectively utilizing spare time.
- ④ to cultivate the spirit of independence and democracy through active participation in group activities.
- ⑤ to foster students in becoming respectable members of society through voluntary participation in every field of the college life.

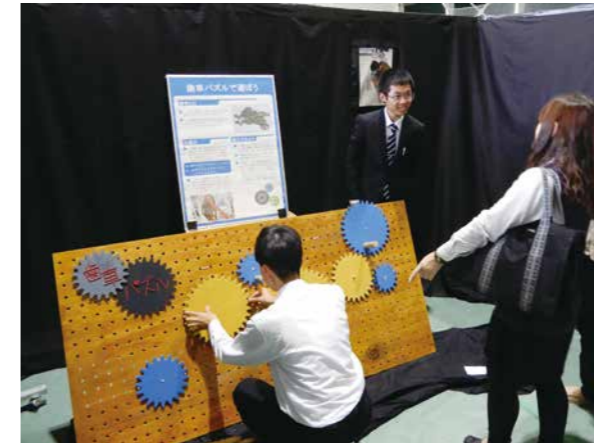
Organization of Student Council



Academic Exhibition

All the fourth grade students organize an academic exhibition every year in College Festival at National Institute of Technology, Gifu College. In the exhibition, the students design, create and display their products related to their majors. Also, visitors to the exhibition can enjoy interactive exhibits.

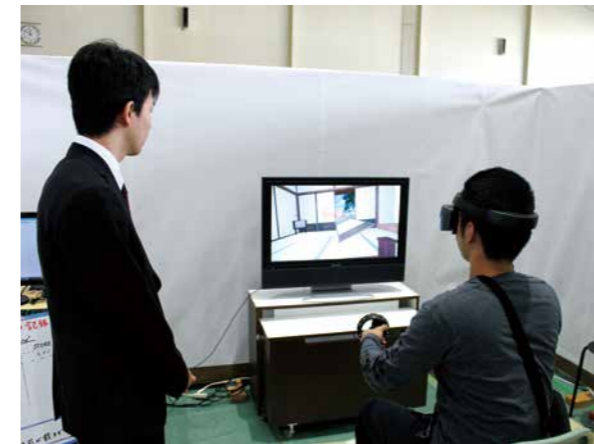
At the exhibition in 2019, students in each department displayed their products as seen in the pictures below. Not only did they display their products at the exhibition, but the students also gave presentations and answered questions from the audience. So visitors could enjoy the exhibits even without any knowledge on engineering.



Exhibition of Mechanical Eng.



Exhibition of Electrical and Computer Eng.



Exhibition of Electronic Control Eng.



Exhibition of Civil Eng.



Exhibition of Architecture

IAO (International Affairs Office) is in charge of all the international activities of National Institute of Technology (KOSEN), Gifu College, including enrollment of foreign students, exchanges of students, faculty members and research collaboration with universities or other higher educational and research organizations in foreign countries.

Enrollment of Foreign Students

Since 1991, NIT (KOSEN), Gifu College has enrolled 84 foreign students in total sponsored by either Japanese or Malaysian government, or Mongolia government. Currently, eleven international students from Malaysia, Mongolia and Cambodia are enrolled.



Skiing school in winter for the foreign students

Enrolled foreign students by country (1991~2020)

Country	Departments※						Total
		M	E	D	C	A	
Malaysia		17	5	16	6	2	46
Laos		0	6	0	0	0	6
Vietnam		0	3	0	0	1	4
Mongolia		2	0	1	2	3	8
Indonesia		0	2	1	0	0	3
Sri Lanka		0	1	1	1	0	3
Combodia		0	0	0	0	4	4
Other Countries ※		1	2	3	0	4	10
Total		20	19	22	9	14	84

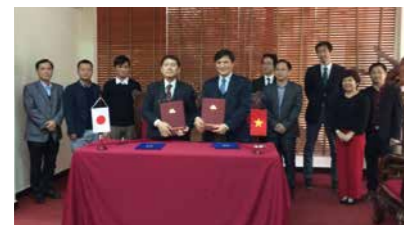
※ M : Department of Mechanical Engineering C : Department of Civil Engineering E : Department of Electrical and Computer Engineering A : Department of Architecture D : Department of Electronic Control Engineering

Our Partner Universities in the World

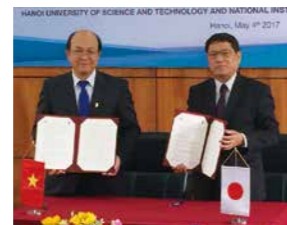
To promote international activities of NIT, Gifu College such as students' internship (a short-term exchange program), exchange of faculty members, research collaboration, etc., NIT (KOSEN), Gifu College has concluded comprehensive exchange agreements with foreign universities; first, Institut Teknologi Bandung (ITB), Indonesia, in November, 2011, Universiti Teknologi Malaysia (UTM) in July, 2012, University of Hannover, Germany in September, 2012, University of Iowa, USA in April, 2013 and TTPU, Turin Polytechnic University in Tashkent, Uzbekistan in June, 2014. We plan to enlarge these activities.

Comprehensive Exchange Agreements

Country	Institutions	Date signed
Indonesia	Institut Teknologi Bandung	Nov. 3, 2011
Malaysia	Universiti Teknologi Malaysia	Jul. 30, 2012
Germany	Universitat Hannover	Sep. 24, 2012
U.S.A.	University of Iowa	Apr. 12, 2013
Uzbekistan	Turin Polytechnic University in Tashkent	Jun. 25, 2014
//	Tashkent State Technical University	Sep. 9, 2015
//	Tashkent Automobile and Road Construction Institute	Jan. 26, 2016
France	Institut Universitaire de Technologie Lille A	Feb. 2, 2016
Vietnam	Hanoi Architectural University	Jan. 16, 2017
//	Mientrung University of Civil Engineering	May. 2, 2017
China	JIANGSU URBAN AND RURAL CONSTRUCTION COLLEGE	Aug. 29, 2017
Malaysia	Universiti Tun Hussein Onn Malaysia	Feb. 25, 2018



With Rector Assoc. Prof. Le Quan at Hanoi Architectural University, Vietnam



With Vice President Assoc. Prof. HQ Thang Hanoi University of Science and Technology, Vietnam



With Vice Chancellor Dr. Wahid bin Razzaly at Universiti Tun Hussein Onn Malaysia



With Deputy Vice Chancellor Prof. Datuk Tajudin Ninggal at Universiti Teknologi Malaysia



With the First Vice Rector Dr. K. Sharipov, TTPU, Turin Polytechnic University in Tashkent

International Internship in Industry and Partner Universities

Since 2003, by the courtesy of TYK corporation (Head office in Tajimi city), NIT (KOSEN), Gifu College has sent the students in the Advanced Engineering Course to TYK America Inc. in Pittsburg, USA and TYK Ltd. in Durham, UK for their three weeks' internship.

In 2012, we expanded the activity into foreign universities with which NIT (KOSEN), Gifu College has concluded comprehensive exchange agreements. Since 2013, we have accepted students from the partner universities for short term study, and these true "exchange" of students between NIT (KOSEN), Gifu College and the partner universities has started. The number of the students who participated in the exchange program is summarized in the table. These exchange activities have been supported by parent's association, alumni association of Gifu college and JASSO.

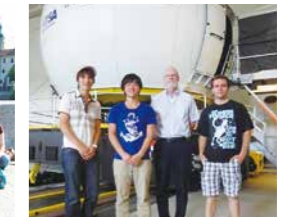
In 2019, we dispatched 13 students to the partner universities while accepted 20 students from those universities.

International Internship

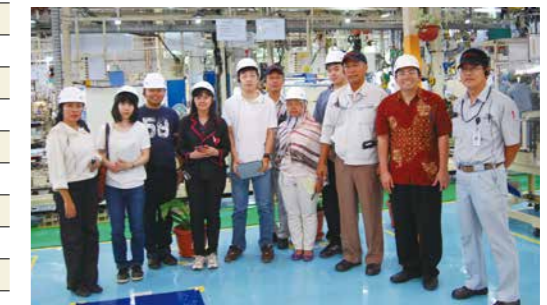
Universities & Company	Academic year	2003 2014	2015	2016	2017	2018	2019
TYK Ltd.	Dispatched	22	2	2	2	2	2
Institut Teknologi Bandung	Dispatched	7	3	3	3	2	2
	Accepted	3	3	3	2	2	2
Universiti Teknologi Malaysia	Dispatched	5	2	3	3	3	2
	Accepted	7	5	3	2	2	1
University of Hannover	Dispatched	2	2	2	2	2	2
	Accepted	3	3	3	2	2	3
University of Iowa	Dispatched	3	2	2	2	2	2
	Accepted	2	3	3	2	2	2
TTPU, Turin Polytechnic University in Tashkent	Dispatched	0	2	2	2	0	0
	Accepted	0	4	3	2	2	2
Tashkent State Technical University	Dispatched	0	0	0	0	0	0
	Accepted	0	0	3	0	0	0
Institut Universitaire de Technologie Lille A	Dispatched	0	0	0	0	0	0
	Accepted	0	0	0	2	2	2
Hanoi Architectural University	Dispatched	0	0	0	0	0	0
	Accepted	0	0	0	2	3	2
Mientrung University of Civil Engineering	Dispatched	0	0	0	0	0	0
	Accepted	0	0	0	2	0	2
Hanoi University of Science and Technology	Dispatched	0	0	0	0	0	0
	Accepted	0	0	0	2	0	0
Republic polytechnic	Dispatched	0	0	0	0	0	0
	Accepted	0	0	2	3	3	3
Thammasat University	Dispatched	0	0	0	0	0	4
	Accepted	0	0	0	0	1	1



University of Hannover



University of Iowa



(From activities during the internship at ITB) Tour to Toyota Motor Factory, Jakarta. Presentation on global warming at an elementary school, Bandung.

Program for future-oriented human resource development

NIT (Kosen), Gifu college has conducted a program for future-oriented human resource development held at Seattle USA every summer. Around thirty students have joined this program and stayed at host families in Seattle for 10 days. During the program, the students take part in workshops for English presentations and discussions based on project-based learning. Last year the students were challenged with some problems concerning the development of the next-generation airplane and presented their idea and the solutions in the final presentation session. Furthermore, career sessions with engineers working in Boeing, Microsoft, MG-2 and some other companies in Seattle are also held as career counseling programs. The engineers talk about their experiences working in foreign countries and pieces of advice on what you should do during school days.

NIT (Kosen), Gifu college is going to conduct this program to enhance not only student's English skills but also career education.



Our school also focuses on community involvement, in which the Techno Center has taken the lead. The main aims of the center are the development of educational research and the contribution to the improvement and progress of industrial technology within the local area. The center has taken an active role in its district to achieve these goals. In addition, the Association of Regional Alliances has been established to promote regional industry and culture through the cooperation of our school's research and education. The center also actively supports seminars for the cultivation of human resources, and conducts explanation meetings and observation tours of the association's member companies.

Relevant Websites

Projects	Websites
Association of Regional Alliances	http://www.gifu-nct.ac.jp/techno/chikirenkei/
Industry-Academia-Government Collaboration Advisors	http://www.gifu-nct.ac.jp/techno/obrenkei/
Instrumental analysis room	http://www.gifu-nct.ac.jp/techno/analysis/top.html
On Campus Lectures	http://www.gifu-nct.ac.jp/about/extension_lecture/
Industry-Academia-Government Collaboration and Research Seeds Collection	http://www.gifu-nct.ac.jp/research/teachers/



Association of Regional Alliances General Meeting



Techno Symposium



Core Human Resources Training Seminar

Schedule of Activities

projects	date
Association of Regional Alliances General Meeting The 29rd Industry-Government-Academic Exchange Council Technology Symposium 2020	February 4, 2021

Contents of Activities

projects	details
Literacy-related activities, debriefs and events	•Science Technology Exhibition in Gifu City Culture Center
Research projects between Association of Regional Alliances and Gifu National College of Technology	4 research projects
Gifu Network University Consortium	scheduled classes: •Mathematics •Experiments

Contents of Activities

• Practical Trainings for Scientific and Technological Literacy

Some educational activities are required, where people come to be interested in science technology and improve their own literacy on it. First of all, students in this college (as well as teachers), who have a role in explaining such a literacy in such activities, should understand it enough. In this college, students have opportunities not only to learn technology in the classrooms, but also some activities to explain what they learned to people outside the college. Students in the colleges, as well as people outside, improve their own literacy enough through these activities. For instance, workshops and experimental lectures are held for elementary school students, junior-high school students, and adults. In advance of these workshops and lectures, students in the college produce teaching materials such as craft kits, experiment device to perform, and special applications.

Themes of these activities are exploration robot, rocket, low head hydro power, earthquake disaster prevention, regional construction, and so on. They all are related to our daily lives. In these activities, students in this college explain what they learned and develop socializing skills. At the same time, people outside the college improve their own literacy on science and technology.

• Extension courses

Courses

JHS : Junior High school ES : Elementary school

No	Lecture	Department	Date	Participants	Fee
①	Kinokuni Robot Competition for Elementary School Students	Mechanical Engineering	① 8/4(Sun) ② 10/20(Sun)	ES students	free
②	Kinokuni Robot Competition for Junior High School Students	Mechanical Engineering	① 8/4(Sun) ② 10/20(Sun)	JHS students	free
③	Building Music Instruments- Introduction to Electronics -	Electrical and Computer Engineering	8/4(Sun)	JHS students (5th and 6th graders are also welcomed)	1,000JPY per Robot
④	Cloisonné "Shippoyaki" Art Class	Tech Office	8/6(Tue)	JHS students and older	free
⑤	Interior Design - Planning your Dream House -	Architecture	8/20(Tue)	JHS students and their parents, JHS teachers	free
⑥	Interior Design - 3D Print Your Design -	Tech Office Architecture	8/21 (Wed)	JHS students and their parents, JHS teachers	free
⑦	Urban Engineering - Creating a Map -	Civil Engineering	8/31 (Sat)	4th, 5th and 6th graders	free
⑧	LED Illumination	Tech Office	9/8(Sun)	JHS students (5th and 6th graders are also welcomed)	free
⑨	Assembling Electronic Circuits and Robots	Electornic Control Engineering	9/28(Sat)	JHS students	2,500JPY per Robot

• Classes on Demand

The college offers a lot of delivery classes in order to encourage junior high school students to experience higher education in advance. Professors visit junior high schools and teach their specialization fields: natural science, humanities, engineering of mechanical, electrical, computer, electronic control, civil and architecture. These experiences would be precious opportunities for the students. In fiscal 2019, 3 themes (5 classes) were implemented.

Table. Title of Delivery Class implemented in fiscal 2019

Let's Make Moving Robot with Bricks
Puzzle class to Inspire your brain
Global Warming Countermeasures (Microrecycling of Local Production and Consumption Type)

Library

The library provides users with various kind of information for the purposes of education and research, mainly consisting of approximately 90,000 books most of which concerns technology. Users feel open and bright atmosphere in the library with open-stack shelves located according to their categories such as qualifying tests, job-hunting, patent, etc.

The library has its annual events in each season like book-hunting, workshop on document retrieval and so on. It is open from 8:30 a.m. to 8:00 p.m. on weekdays, and from 9:00 a.m. to 4:00 p.m. on Saturdays. Studying space and opening hours (on Saturdays during the examination weeks) have been extended for the students' convenience. New learning commons have been set up, Due to renovation in 2019.

(1) Hours of opening

Term Monday...Friday
8:30 a.m. ... 8:00 p.m.
Saturday
9:00 a.m. ... 4:00 p.m.
Closing Term of Dormitory
8:30 a.m. ... 5:00 p.m.

(2) Closed

Sundays, National Holidays, Winter Holidays (Dec. 29th... Jan. 3rd), Saturdays during Spring, Summer and Winter Vacation, End-of-the-School-Year holidays and Closing Term of Dormitory.
Notices will be given when the library is to be closed in other occasions.

Visit our website for more information
<http://www.gifu-nct.ac.jp/tosho/>



Book Hunting



Library Appearance



Reading Room

Collection of Books

(2020.4.1)

Classification	Japanese	Foreign	Total
General	2,606	223	2,829
Philosophy	2,950	192	3,142
History	6,031	133	6,164
Social Science	7,333	201	7,534
Natural Science	15,603	3,815	19,418
Technology	29,013	3,994	33,007
Industry	1,184	29	1,213
Arts	4,063	152	4,215
Language	3,830	2,200	6,030
Literature	13,048	2,413	15,461
Total	85,661	13,352	99,013

Kinds of Periodicals

Japanese	Foreign	Total
57	2	59

Audio-Visual Materials

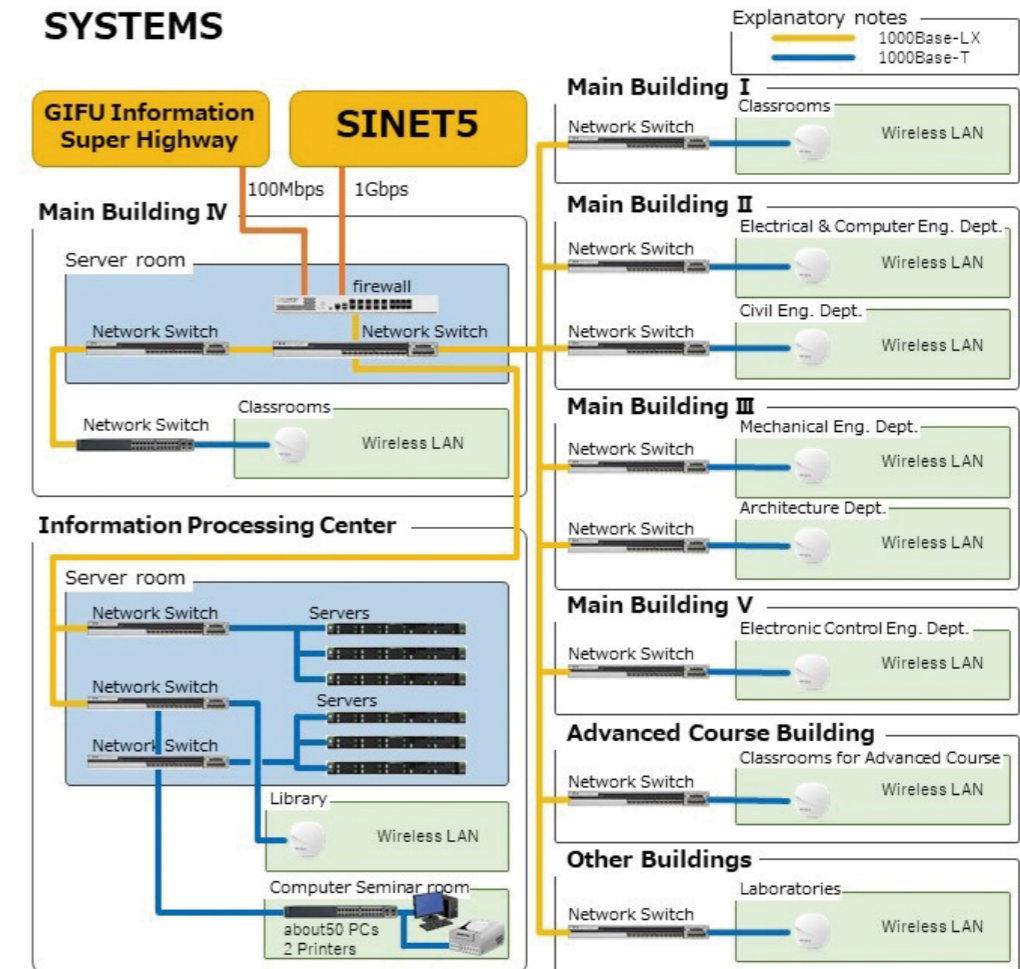
DVD	337
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Computer Center

The Information Processing Center is a common facility which can be used for computer education, e-learning, CAI (Computer Assisted Instruction), CAD (Computer Aided Design), graduation studies, academic research and so on.

The school's local network runs on the gigabit Ethernet, and is connected to SINET and Gifu Information Super Highway. Since the present system has been updated in April of 2016, About 200 PCs four classrooms in the Center run on the network boot system. They are connected to the Internet and some LMS (Learning Management Systems). The students can use them to study on the LMS, to communicate with various people by e-mail, and to search the websites.

SYSTEMS



Lecture in Seminar room



5th Seminar room

Dormitory

The dormitory named "Yushiryo" is located within the college grounds, several minutes' walk to the main buildings of the college. It consists of six boarding houses with furnished rooms, three for boys (Dormitory A, C and D) and three for girls (Dormitory B, 1st Girls' Dormitory and Dormitory E). It accommodates up to 307 students. Every year, about 60 new students are permitted to live in the dormitory. Dormitory B is a mixed dormitory of Japanese and international students.

The dormitory also has a large dining hall where almost all the boarders can have meals together. The students are expected to promote their autonomy-minded activities and elder students give advice and aid to younger ones.

The monthly cost is 700 yen (for double rooms in Dormitory A and 1st Girls' Dormitory) or 800 yen (for single rooms in Dormitory A and Dormitory B, C and D) to register. In addition, the following costs are required: food cost (34,700 yen a month), utility costs, common expenses, etc. (total 55,000 yen a year), air conditioner lease fees and electricity expenses (total 27,600 yen a year). (Utility costs, common expenses, etc. will be revised.) The renovation work in 1st Girls' Dormitory starts in summer this year and is scheduled to be completed in March next year.

Capacity of Boarders

Name	Capacity of room	Number of Room	Capacity
Dormitory A	2	41	90
	1	8	
Dormitory B	1	36	36
Dormitory C	1	45	45
Dormitory D	1	84	84
1st Girls' Dormitory	2	20	40
Dormitory E	2	6	12
Total		240	307

Current Number of Boarders

(As of May 1, 2020)

Grade Course	1st	2nd	3rd	4th	5st	Total
	Mechanical Eng.	0	0	0	0	
Electrical and Computer Eng.	0	0	0	0	0	0
Electronic Eng.	0	0	0	0	0	0
Civil Eng.	0	0	0	0	0	0
Architecture	0	0	0	0	0	0
Total	0	0	0	0	0	0
Advanced Course for Interdisciplinary Technology Development	0	0	/			0
Total	0	0	/			0

※As a measure against the new corona virus, students are not currently allowed to enter the dormitory.
 ※The long-term international students are living in rented accommodation as the dormitory is being renovated now.(As of May 1st 2020, three male international students are living there.)



Dormitory



Christmas party

Techno Center

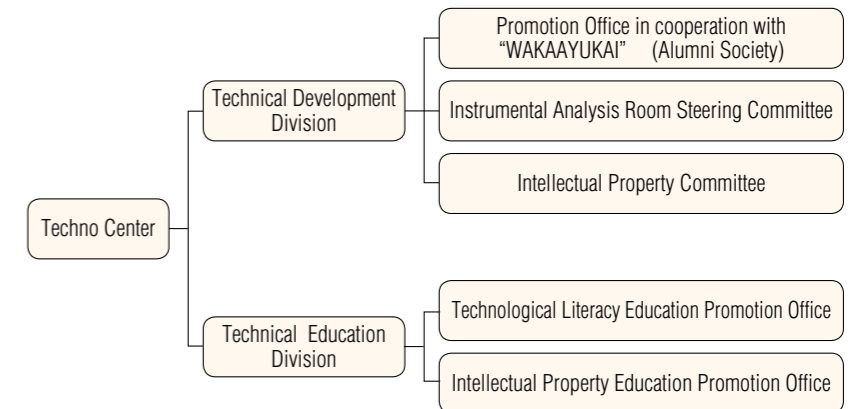
Techno Center is an institution for all departments in the college. It provides with machine tools and produces devices for manufacturing education, research activities and club activities. For instance, designing and producing works for graduation research or for the NHK Robot Contest are conducted here. In addition, some short courses for visiting students to learn usage instructions of machine tools, and open classes for fundamental manufacturing technologies are held. Besides fundamental machine tools for manufacturing education, it has various kinds of newly developed multifunctioning devices with computers. Some of them are shown in Table 1. Furthermore, a comprehensive manufacturing laboratory class is set for the 4th year students of Mechanical Engineering Department. In this class, students experience the whole process from designing to producing goods.

Website
<http://www.gifu-nct.ac.jp//research/>



Table. Major equipments installed

Equipment	Number
lathe	12
milling machine	9
shearing machine	1
electric furnace	2
CNC turning center	2
CNC milling machine	1
machining center	2
electric discharge machine	2
Surface grinding machine	1
industrial robot	2
arc welder	11
gas welder	2
factory automation system	1



Techno Center Organization Chart



Machining Center



Electric Discharge Machine



Factory Automation Practice Teaching System

• Instrumental Analysis Room



Scanning Electron Microscope, Hitachi High Technology, S-3400N



X-ray Diffractometer, Rigaku, SmartLab



Fourier Transform Infrared Spectroscopy, Thermo Science, iS50

• Activities of the Technological Literacy Education Promotion Office



Gifu Science Festival



HIRAMEKI Puzzle

• Lecture For Obtaining Competitive Funds



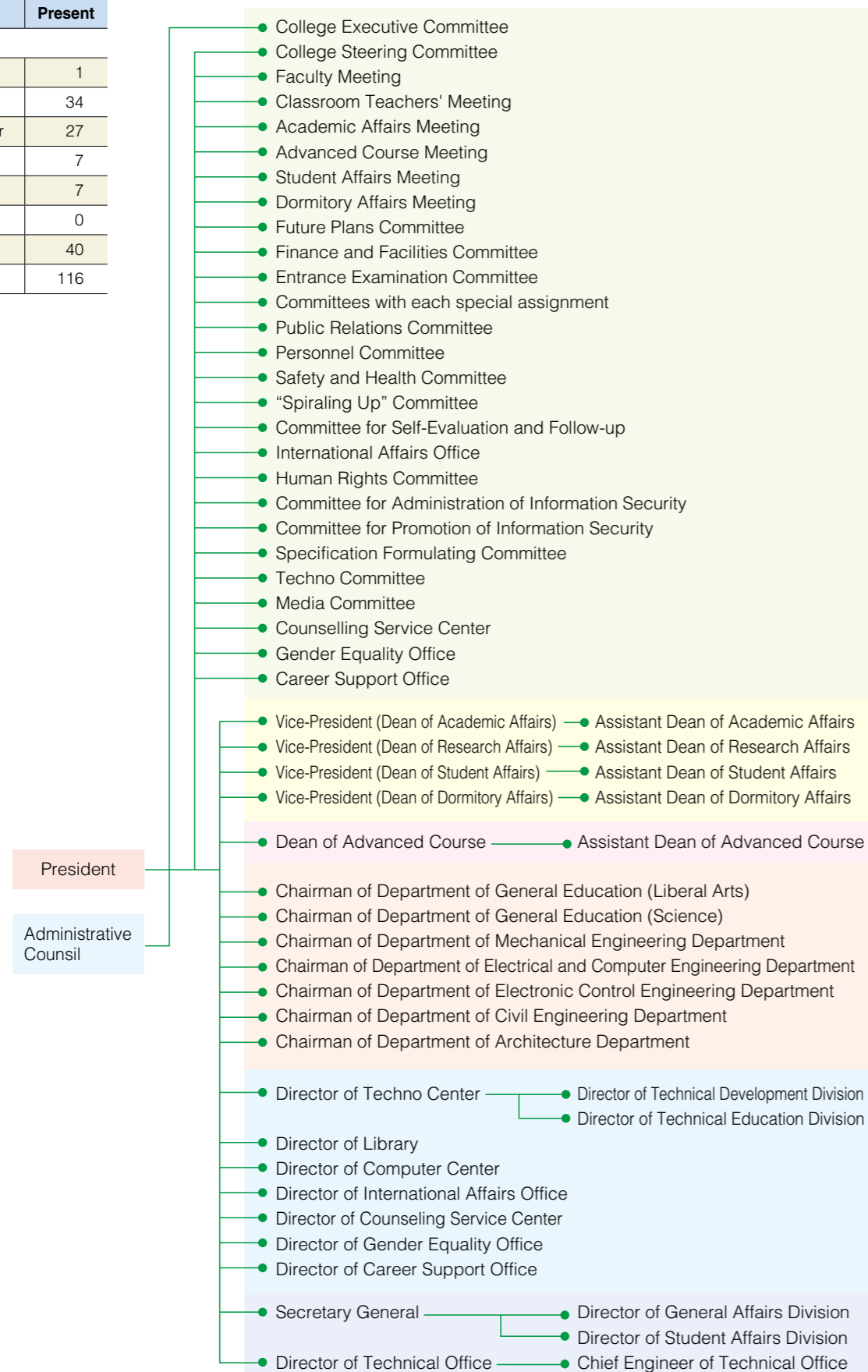
Lecture For Obtaining Competitive Funds

Organization

Present Staff As of April 1, 2020

Classification	Present
Teaching Staff	
President	1
Professor	34
Associate Professor	27
Lecturer	7
Assistant Professor	7
Research Assistant	0
Officials	40
Total	116

Chart of Organization



Executives

Title	Name
President	ITOH, Yoshito
Vice-President (Dean of Academic Affairs)	WADA, Kiyoshi
Vice-President (Dean of Research Affairs)	KITAGAWA, Hideo
Vice-President (Dean of Student Affairs)	YAMAMOTO, Hiroki
Vice-President (Dean of Dormitory Affairs)	NAKAJIMA, Yasutaka
Dean of Advanced Engineering Faculty	INUKAI, Toshitsugu
Assistant Dean of Advanced Engineering Faculty	KATAMINE, Eiji
Chairman of Department of General Education (Liberal Arts)	KAMEYAMA, Taichi
Chairman of Department of General Education (Science)	UEHARA, Toshiyuki
Chairman of Department of Mechanical Engineering	KATO, Kozo
Chairman of Department of Electrical and Computer Engineering	DEGUCHI, Toshinori
Chairman of Department of Electronic Control Engineering	FUJITA, Kazuhiko

Title	Name
Chairman of Department of Civil Engineering	YOSHIMURA, Yuji
Chairman of Department of Architecture	TSURUTA, Yoshiko
Director of Techno Center	HABUCHI, Hitoe
Director of Technical Office	KIBAYASHI, Toru
Director of Technical Development Division	HABUCHI, Hitoe
Director of Technical Education Division	YAMADA, Minoru
Director of Library	SHIBATA, Ryoichi
Director of Computer Center	YAMADA, Hirobumi
Director of International Affairs Office	YAMAMOTO, Takahisa
Director of Counseling Service Center	MAGUSA, Atsushi
Director of Gender Equality Office	TSURUTA, Yoshiko

Administrative Staff

Title	Name
Secretary General	KIBAYASHI, Toru
Director of General Affairs Division (Additional Post)	//
Deputy Director of Student Affairs Division	TAKAHASHI, Toshie

Title	Name
Assistant Director of General Affairs Division (General Affairs)	KUNIEDA, Kazuyo
Assistant Director of General Affairs (Finance)	TANAKA, Takeshi
Chief Engineer of Technical Office	SATO, Kenji

Health Service Staff

Title	Name
Physician	HORIBE, Ren
Physician	YOKOYAMA, Hitomi
Physician	AMANO, Yuhei
Dentist	TAKEUCHI, Mikio

Title	Name
Pharmacist	TAKADA, Hirotaka
Counselor	ABE, Ayato
Counselor	YAMAMOTO, Hiroyo
Counselor	NODA, Hiromi

Specially Appointed Faculty

Title	Name
Specially Appointed Professor	SUZUKI, Takao

Students

Admission Capacity and Current Number of students

(As of May 1, 2020)

Departments	Capacity of Admission	1st	2nd	3rd	4th	5th	Total
Mechanical Eng.	40	44 (6)	39 (2)	49 (1) ①	44 (3) ①	37 (4)	213 (16) ②
Electrical and Computer Eng.	40	42 (5)	42 (10)	43 (4) ①	47 (5)	35 (4)	209 (28) ①
Electronic Control Eng.	40	42 (4)	44 (2)	44 (4) ①	47 (2)	37 (2)	214 (14) ①
Civil Eng.	40	43 (16)	43 (21)	47 (15) ①	45 (13)	44 (15)	222 (80) ①
Architecture	40	41 (22)	40 (23)	44 (28) ①	37 (15)	41 (25) ①	203 (113) ①①
Total	200	212 (53)	208 (58)	227 (52) ③②	220 (38) ①	194 (50) ①	1061 (251) ⑤②
Advanced Course for Interdisciplinary Technology Development	20	37 (4) ①	35 (5) ①				72 (9) ②
Cooperative Education Program for Advanced Interdisciplinary Technology	a few people	1				1	
Total	20	38 (4) ①	35 (5) ①				73 (9) ②

() Female Students, ○Overseas Students, ●Prolonged absence Students

Current Number of Overseas Students

(As of May 1, 2020)

Departments	Grade	Malaysia	Mongolia	Cambodia	Total
Mechanical Eng.	3rd		1		1
	4th	1 (1)			1 (1)
	5th				
Electrical and Computer Eng.	3rd	1			1
	4th				
	5th				
Electronic Control Eng.	3rd				
	4th				
	5th				
Civil Eng.	3rd		1		1
	4th				
	5th				
Architecture	3rd				
	4th				
	5th			1	1
Total		2 (1)	2	1	5 (1)

() Female Students

Japan Student Services Organization

(2019)

Departments	1st	2nd	3rd	4th	5th	Total
Mechanical Eng.		1			3 (1)	4 (1)
Electrical and Computer Eng.		1	1	4 ※1		6
Electronic Control Eng.		3	1	2	1	7
Civil Eng.			2		1	3
Architecture		1	1	2 (2)	2 (2)	6 (4)
Total		6	5	8 (2)	7 (3)	26 (5)
Advanced Course for Interdisciplinary Technology Development						
Total						

() Female Students

※1 Includes two students getting grant-type scholarship

Students

Number of Students by Home Prefecture

(As of May 1, 2019)

Departments	Grade	Gifu	Aichi	Shiga	Other	Total
Mechanical Eng.	1st	34 (2)	8			42 (2)
	2nd	35 (1)	5	1		42 (1)
	3rd	39 (4)	6	1	1	50 (3)
	4th	36 (1)	4	3	2 (1)	41 (4)
	5th	31	6	1	1	37 (2)
Electrical and Computer Eng.	1st	34 (7)	7 (3)	1		42 (10)
	2nd	40 (4)	5	1 (1)		42 (4)
	3rd	38 (3)	5 (1)	1		45 (5)
	4th	33 (6)	2 (1)	1		39 (4)
	5th	40 (4)	2	1		36 (7)
Electronic Control Eng.	1st	35 (1)	5	2 (1)		42 (2)
	2nd	35 (2)	6	2	1	42 (3)
	3rd	40 (5)	9	1		49 (4)
	4th	19 (1)	11	1		43 (3)
	5th	29 (2)	9		2	29 (1)
Civil Eng.	1st	35 (18)	7 (3)			42 (21)
	2nd	39 (11)	4 (1)		1 (1)	44 (14)
	3rd	44 (15)	5	1 (1)	1 (1)	42 (14)
	4th	36 (8)	3	1	3 (1)	50 (15)
	5th	34 (11)	3		1	39 (9)
Architecture	1st	31 (16)	4 (3)		5 (4)	40 (23)
	2nd	34 (12)	6 (4)	1 (1)	2 (1)	44 (28)
	3rd	32 (19)	5 (3)	1 (1)	4 (3)	41 (18)
	4th	31 (15)	7 (4)		5 (2)	41 (25)
	5th	30 (13)	5		3 (1)	41 (21)
Total		842 (188)	142 (30)	23 (6)	38 (19)	1045 (243)
	(%)	80.6	13.6	2.2	3.6	100.0

() Female Students

Number of Students by Home College

(As of May 1, 2019)

Departments	Grade	NIT(KOSEN), Gifu College	NIT(KOSEN), Toyota College	NIT(KOSEN), Kanazawa College	NIT(KOSEN), Oita College	Total
Advanced Course for Interdisciplinary Technology Development	1st	34 (5)		1	1	36 (5)
	2nd	32 (2)	1			33 (2)
Total		66 (7)	1	1	1	69 (7)

() Female Students

NIT=National Institute of Technology.

Number of Applicants and Applicants/Enrollees Ratio

Departments	Capacity	2017		2018		2019		2020	
		Applicants	Ratio	Applicants	Ratio	Applicants	Ratio	Applicants	Ratio
Mechanical Eng.	40	64 (3)	1.6	70 (1)	1.8	80 (2)	2.0	74 (9)	1.9
Electrical and Computer Eng.	40	74 (6)	1.9	78 (9)	2.0	85 (14)	2.1	93 (10)	2.3
Electronic Control Eng.	40	88 (2)	2.2	85 (4)	2.1	82 (4)	2.1	80 (6)	2.0
Civil Eng.	40	61 (18)	1.5	71 (23) 1	1.8	73 (25)	1.8	81 (30) 1 (1)	2.0
Architecture	40	74 (26)	1.9	104 (44) 1	2.6	101 (50)	2.5	93 (45) 1 (1)	2.3
Total	200	361 (55)	1.8	408 (81) 1	2.0	421 (95)	2.1	421 (100) 1 (1)	2.1

() Female Students, Lower column : Applicants for the Admission for Returnees

Number of Applicants and Enrollees transferring into 4th Grade

Departments	2017		2018		2019		2020	
	Applicants	Enrollees	Applicants	Enrollees	Applicants	Enrollees	Applicants	Enrollees
Mechanical Eng.								
Electrical and Computer Eng.			1	0				
Electronic Control Eng.			1	1				
Civil Eng.							1	1
Architecture	1	0	1	1	3	1	2	1
Total	1	0	3	2	3	1	3	2

() Female Students

Number of Applicants and Enrollees into Advanced Course

Departments	2017		2018		2019		2020	
	Applicants	Enrollees	Applicants	Enrollees	Applicants	Enrollees	Applicants	Enrollees
Electronic System Eng. Advanced Course								
Architecture and Civil Eng. Advanced Course								
Advanced Course for Interdisciplinary Technology Development	72 (2)	36	53 (4)	33 (2)	62 (5)	36 (5)	67 (7)	36 (4)
Total	72 (2)	36	53 (4)	33 (2)	62 (5)	36 (5)	67 (7)	36 (4)

() Female Students

Future Course of Graduates

Year	Departments	Number of Graduates	Employed	Advanced to Universities	Other
2016	Mechanical Eng.	42	22	20	
	Electrical and Computer Eng.	34(5)	18(2)	13(2)	3(1)
	Electronic Control Eng.	39(3)	19(2)	20(1)	
	Civil Eng.	34(5)	23(5)	11	
	Architecture	41(13)	26(11)	14(2)	1
	Total	190(26)	108(20)	78(5)	4(1)
2017	Mechanical Eng.	37(2)	19(1)	18(1)	
	Electrical and Computer Eng.	47(6)	20(5)	27(1)	
	Electronic Control Eng.	40(2)	20(2)	20	
	Civil Eng.	40(15)	28(9)	12(6)	
	Architecture	43(15)	29(14)	14(1)	
	Total	207(40)	116(31)	91(9)	
2018	Mechanical Eng.	39	19	20	
	Electrical and Computer Eng.	42(4)	15(3)	25(1)	2
	Electronic Control Eng.	40(2)	13(1)	26(1)	1
	Civil Eng.	38(11)	27(7)	11(4)	
	Architecture	37(14)	24(11)	13(3)	
	Total	196(31)	98(22)	95(9)	3
2019	Mechanical Eng.	37(2)	12(1)	23(1)	2
	Electrical and Computer Eng.	36(7)	20(6)	15(1)	1
	Electronic Control Eng.	29(1)	8	21(1)	
	Civil Eng.	39(9)	25(7)	10	4(2)
	Architecture	41(21)	28(14)	12(7)	1
	Total	182(40)	93(28)	81(10)	8(2)

() Female Students

Graduates' Entrance into Advanced Course and Universities

University	Year	2017	2018	2019	2020
Hokkaido Univ.			1		3
Tohoku Univ.			1		
Univ. of Tsukuba			2	1	
Gunma Univ.				1	
Chiba Univ.	1		1	1	
Tokyo Univ.				1	1
Tokyo Institute of Technology	1				1
The University of Electro-Communications			1		2
Tokyo Univ. of Agriculture and Institute				1	1
Yokohama National Univ.				2	
Niigata Univ.			1		
Nagaoka Univ. of Technology	3		1	10	3
Toyama Univ.			1		
Kanazawa Univ.	1		3	4	3
Fukui Univ.	2		1	1	2
Univ. of Yamanashi			1		
Shinshu Univ.					1
Gifu Univ.	9		13	12	8
Shizuoka Univ.	1				1
Nagoya Univ.	3		4		1
Nagoya Institute of Technology	1			5	
Toyohashi Univ. of Technology	8		7	11	9
Mie Univ.	2		5		1
Kyoto Institute of Technology			1		
Osaka Univ.	1		1	2	
Kobe Univ.	1		1		3
Nara Women Univ.			1	1	1
Okayama Univ.	2		2	1	
Hiroshima Univ.	2		3	1	
Yamaguchi Univ.				1	2
Kagawa Univ.	1				
Kyushu Univ.			1	1	1
Kyushu Institute of Technology			1		
Kumamoto Univ.	1		2	1	1
Ryukyus Univ.					1
Tokyo Metropolitan Univ.			1		
Osaka Prefecture Univ.	1				
Waseda Univ.			1		
Teikyo Univ.				1	
Chiba Institute of Technology	1				
Ritsumeikan Univ.			1	1	
NIT(KOSEN), Gifu College	36		32	34	35
NIT(KOSEN), Maizuru College			1		
Total	78		91	95	81

() Graduates of the Previous year

Future Course of Graduates

Number of the Advanced Course Graduates who entered Graduate Schools

Graduate school	Year	2017	2018	2019	2020
Tohoku Univ. (Graduate School)				1	1
Univ. of Tsukuba (Graduate School)		2		4	1
Yokohama National Univ. (Graduate School)				1	
Nagaoka Univ. of Technology (Graduate School)			1	3	1
Japan Advanced Institute of Science and Technology					1
Gifu Univ. (Graduate School)				1	
Nagoya Univ. (Graduate School)			1		1
Nagoya Institute of Technology (Graduate School)	1		3	1	
Toyohashi Univ. of Technology (Graduate School)				1	
Kyoto Univ. (Graduate School)			1		
Kyoto Institute of Technology (Graduate School)				1	
Osaka Univ. (Graduate School)	3				
Nara Institute of Science and Technology	2			1	
Kyushu Univ. (Graduate School)			1		1
Total		8	7	14	6

() Graduates of the Previous year

Employment

Year	Departments	Students Seeking a job A	Jobs offered B	Ratio B/A	location of employment		place of employment		
					Gifu	Others	Companies	Official	Public Corporation
2017	Mechanical Eng.	19(1)	680	35.8	1	18(1)	19(1)		
	Electrical and Computer Eng.	20(5)	547	27.4		20(5)	20(5)		
	Electronic Control Eng.	20(2)	624	31.2	4	17(2)	20(2)	1	
	Civil Eng.	28(9)	285	10.2	6(4)	22(5)	19(4)	9(5)	
	Architecture	29(14)	291	10.0	2(1)	27(13)	29(14)		
	Total	116(31)	2427	20.9	13(5)	104(26)	107(26)	10(5)	
2018	Mechanical Eng.	19	651	34.3	2	17	19		
	Electrical and Computer Eng.	15(3)	738	49.2		15	15		
	Electronic Control Eng.	13(1)	730	56.2		13	13		
	Civil Eng.	27(7)	352	13	6	21	17	10	
	Architecture	24(11)	307	12.8	3	21	23	1	
	Total	98(22)	2778	28.3	11	87	87	11	
2019	Mechanical Eng.	12(1)	662	55.2	1	11(1)	12(1)		
	Electrical and Computer Eng.	20(6)	665	33.3		20(6)	20(6)		
	Electronic Control Eng.	8	610	76.3		8	8		
	Civil Eng.	25(7)	388	15.5	5(2)	20(5)	15(2)	10(5)	
	Architecture	28(14)	353	12.6	2(2)	26(12)	26(13)	2(1)	
	Total	93(28)	2678	28.8	8(4)	85(24)	81(22)	12(6)	

() Female Students

Advanced Course

Year	Departments	Graduates	Students Seeking a job A	Students Continuing Education	Others	Jobs offered B	Ratio B/A	location of employment		place of employment		
								Gifu	Others	Companies	Official	Public Corporation
2017	Advanced Course for Interdisciplinary Technology Development (Mechanical・Electrical and Computer・Electronic Control)	14	11	3		496	45.1	1	10	11		
	Advanced Course for Interdisciplinary Technology Development (Civil・Architecture)	14(3)	10(3)	4		186	18.6	3(2)	7(1)	6	4(1)	
	Total	28(3)	21(3)	7		682	32.5	4(2)	17(1)	17	4(1)	
2018	Advanced Course for Interdisciplinary Technology Development (Mechanical・Electrical and Computer・Electronic Control)	27	17	10		517	30.4	2	15	17		
	Advanced Course for Interdisciplinary Technology Development (Civil・Architecture)	11	5	4	2	198	39.6		5	5		
	Total	38	22	14	2	715	32.5	2	20	22		
2019	Advanced Course for Interdisciplinary Technology Development (Mechanical・Electrical and Computer・Electronic Control)	21	17	4		529	31.1	3	14	17		
	Advanced Course for Interdisciplinary Technology Development (Civil・Architecture)	11(2)	9(2)	2		240	26.7	3(1)	6(1)	3	6(2)	
	Total	32(2)	26(2)	6		769	29.6	6(1)	20(1)	20	6(2)	

() Female Students

Finance

Operating Costs such as Income and Expenditure Grant

(Unit: ¥1,000)

Revenue		Expenditure	
Grants for Operation Costs	112,830	164,756	Education and Research Expenses
Tuition Revenue	254,342	8,978	Support Education and Research Expenses
Admission Fee Income	21,191	13,275	General and Administrative Expenses
Testing Fee Income	7,697	216,095	Common Expenses
Miscellaneous Income	7,028		
Total	403,088	403,104	Total

Adoption Subsidy Situation etc.

(Unit: ¥1,000)

Classification	Year	2016	2017	2018	2019
Subsidy Budget for Construction of Facilities		-	217,620	120,446	605,421
Project Cost Delivery Facility Expenses		-	22,680	-	19,855
Grants-in-Aid for Equipment Maintenance		-	-	-	37,676
Human Resource Development Business for Nuclear Power Subsidy		68	-	21	123
Grants for Promoting University Reform		19,600	18,032	18,650	9,334
Total		19,668	258,332	139,117	672,409

Grants-in-Aid for Scientific Research

(Unit: ¥1,000)

Classification	Year	2016		2017		2018		2019	
		Number	Funds	Number	Funds	Number	Funds	Number	Funds
Grant-in-Aid for Scientific Research (B)		0	0	0	0	0	0	1	200
Grant-in-Aid for Scientific Research (C)		15	12,400	14	13,900	16	13,300	18	16,600
Grant-in-Aid for Exploratory Research		0	0	1	3,300	1	800	1	500
Grant-in-Aid for Early-Career Scientists		0	0	0	0	3	3,300	7	7,000
Grant-in-Aid for Young Scientists (A)		2	3,000	2	900	0	0	0	0
Grant-in-Aid for Young Scientists (B)		2	1,800	4	5,200	3	3,900	0	0
Encourage Research		2	780	1	400	2	950	0	0
Grant-in-Aid for starting Scientific Research		0	0	0	0	0	0	0	0
Grant-in-Aid for Publication of Scientific Research Results		0	0	1	700	0	0	0	0
Total		21	17,980	23	24,400	25	22,250	27	24,300
			5,160		6,990		6,390		7,290

Direct expense (upper), Overhead expense (lower)

External Fundings

(Unit: ¥1,000)

Classification	Year	2016		2017		2018		2019	
		Number	Funds	Number	Funds	Number	Funds	Number	Funds
Research Funding Such as Industry academia Collaboration	Funded Research	3	13,018	2	15,835	3	2,590	3	4,205
	Funded Projects	0	0	1	1,427	2	673	1	1,066
	Contract Testing	0	0	0	0	0	0	0	0
	Joint Research	10	5,606	18	10,508	13	21,636	11	6,121
	Subtotal	13	18,624	21	27,770	18	24,899	15	11,392
Donations		46	27,906	34	18,200	39	9,401	29	14,359
Other Subsidys		4	5,610	2	1,094	17	20,430	20	20,690
Total		63	52,140	57	47,064	74	54,730	64	46,441

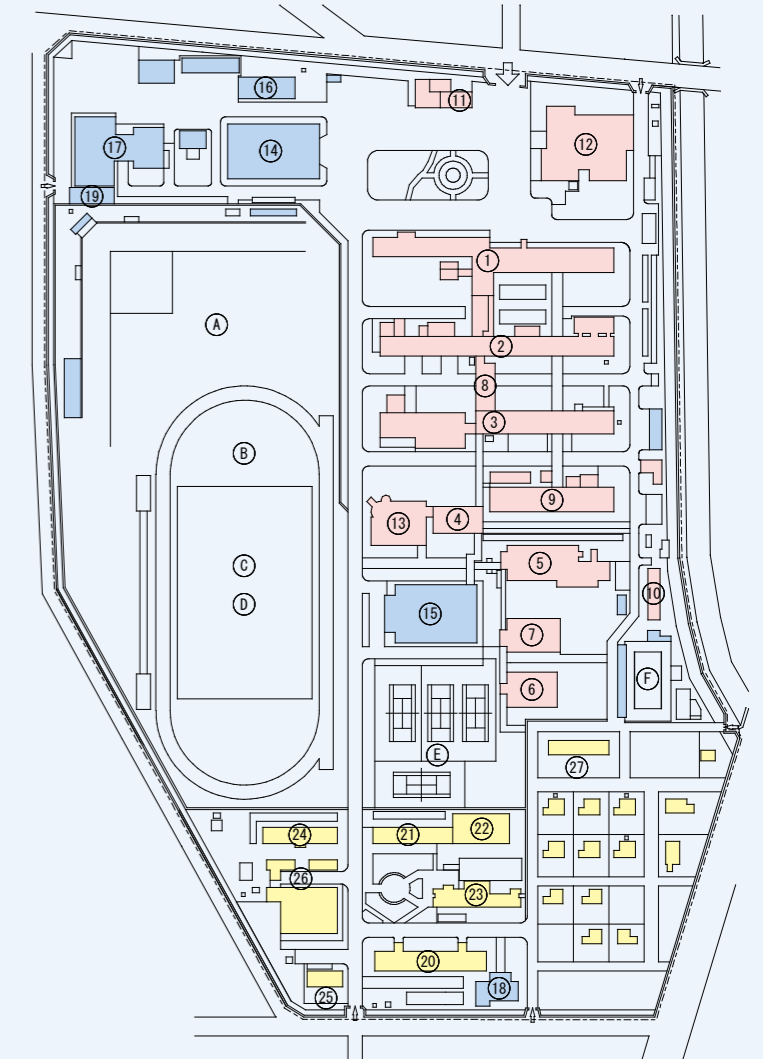
Land and Buildings

Lands

Classification	Area	Notes
School houses	50,975 m ²	Baseball Ground, Soccer Rugby Ground, 400-Meter Track, Tennis Court (4), Swimming Pool (25meters×6 courses), etc.
Grounds	37,870	
Dormitory	10,414	
Personnel Housing	7,677	
Total	106,936	

Buildings

Classification	structure	Total Floor Space
Main Building I	RC3	4,040
Main Building II	RC3	3,576
Main Building III	RC3	3,594
Main Building IV	RC3	660
Main Building V	RC4	2,491
Main Building VI	RC4	1,155
Advanced Course Building	RC4	1,160
General Education Building	RC3	620
Techno Center	S1	1,001
Hydrodynamic Laboratory	S1	253
Room for Physical Education	RC1	43
Preparation Room for Civil Engineering Experiments	S1	186
Preparation Room for Electric Experiments	S1	63
Room for Architecture Experiments	S1	99
Guard Mens Room & Garage	RC1	191
Library	RC2	1,965
Welfare Hall "IBUKI"	RC2	834
boiler Room etc.		1,586
Subtotal		23,517
Gymnasium I	RC2+S	1,286
Gymnasium II	RC1	885
Training Hall	W1	336
Ando Memorial Hall	S1-RC1	789
Site of Training Camp "RYOUNSO"	W1	235
Site of Training Camp "2nd RYOUNSO"	RC1	126
Warehouse etc.		1,233
Subtotal		4,890
Dormitory A		1,341
Dormitory B & C		1,543
Dormitory D		1,388
1st Girls' Dormitory		647
Administration Office & 2nd Girls' Dormitory		303
Dining Hall & Bath House etc.		854
Subtotal		6,076
Personnel Housing		1,448
Total		35,931



- ① Main Building I
- ② Main Building II
- ③ Main Building III
- ④ Main Building IV
- ⑤ Main Building V
- ⑥ Main Building VI
- ⑦ Advanced Course Building
- ⑧ General Education Building
- ⑨ Techno Center
- ⑩ Hydrodynamic Laboratory
- ⑪ Guard Mens' Room & Garage
- ⑫ Library
- ⑬ Welfare Hall "IBUKI"
- ⑭ Gymnasium I
- ⑮ Gymnasium II
- ⑯ Training Hall
- ⑰ Ando Memorial Hall
- ⑱ Site of Training Camp "RYOUNSO"
- ⑲ Site of Training Camp "2nd RYOUNSO"
- ⑳ Dormitory A
- ㉑ Dormitory B
- ㉒ Dormitory C
- ㉓ Dormitory D
- ㉔ 1st Girls' Dormitory
- ㉕ Administration Office & 2nd Girls' Dormitory
- ㉖ Dining Hall & Bath House etc.
- ㉗ Personnel Housing
- Ⓐ Baseball Ground
- Ⓑ 400-Meter Track
- Ⓒ Soccer Ground
- Ⓓ Rugby Ground
- Ⓔ Tennis Court
- Ⓕ Swimming Pool