

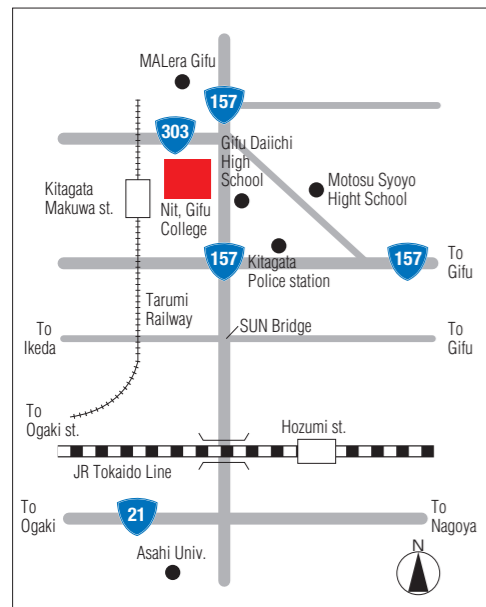
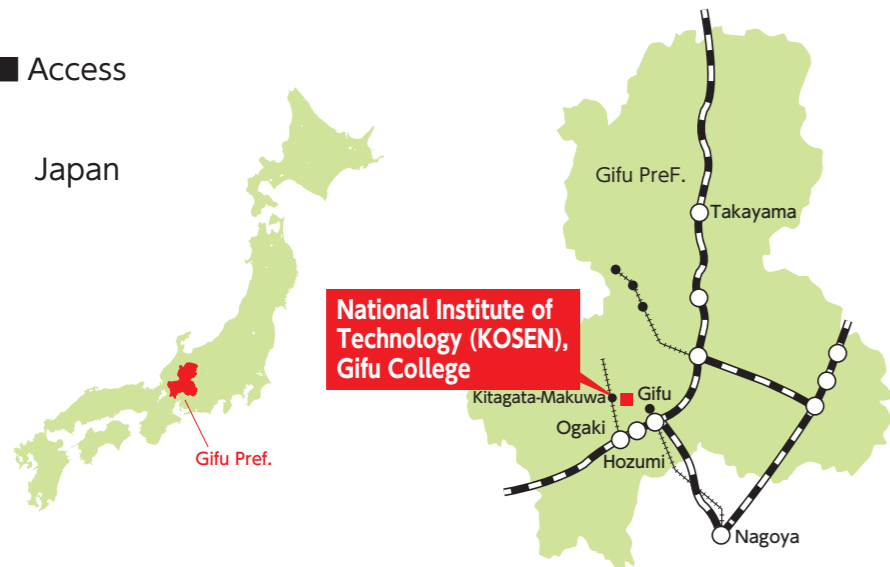
- Department of Mechanical Engineering
 - Department of Electrical and Computer Engineering
 - Department of Electronic Control Engineering
 - Department of Civil Engineering
 - Department of Architecture
-
- General Education (Humanities・Natural Sciences)

Advanced Course

- Interdisciplinary Technology Development

■ Access

Japan



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

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

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



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Shape your future.



National Institute of
 Technology (KOSEN),
 Gifu College



College Bulletin Gifu Kosen

2024

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.

Gifu Kosen (The National Institute of Technology, Gifu College) has its campus in Motosu City in the southwestern part of Gifu Prefecture, famous for its *usuzumizakura* blossoms, which was selected as one of Japan's 100 best cherry blossom viewing spots. It is one of 51 national technical colleges in Japan and part of the network of the National Institutes of Technology.

Gifu Kosen was established in 1963 and celebrates its 60th anniversary in 2023. This is a school steeped in tradition, where practical engineers and leading engineers are trained through a five-year integrated education program that endows them with the basic academic abilities as engineers to support the foundation of manufacturing, as well as early specialized education in general liberal arts education and engineering. There are five specialized tracks offered and major courses (Advanced Integrated Development Major) led by the Department of Mechanical Engineering, the Department of Electrical and Computer Engineering, the Department of Electronic Control Engineering, the Department of Civil Engineering, and the Department of Architecture. To date, we have prepared and sent approximately 9,455 regular graduates and 852 advanced course students into society. In March 2024, a total of 236 students completed their regular and advanced courses and graduated, and each of them began to take their own career path. After graduation, graduates can play an active role as engineers in private firms and/or public institutions. Especially in the industrial sector, technical college graduates are highly regarded, and the job opening-to-application ratio is extremely high. (In the last year, for regular graduates it is 27 times, and for the number of major graduates it is approximately 45 times). In addition to obtaining employment, regular graduates can also obtain bachelor's qualifications by enrolling in advanced courses at Gifu Kosen or transferring to the third year of university. After completing the advanced course and obtaining a bachelor's degree, the student will also be able to advance to graduate school.



Gifu college, National College of Technology
President ITSUNO Shinichi, Dr. Eng.

Due to the rapid advancement of science and technology, the declining birthrate and aging population, globalization, and climate change, as well as new coronavirus infectious diseases, major changes in society are accelerating. The environment surrounding technical colleges is also changing, along with the qualities and abilities required of technical college graduates. However, in this context, the role of technical colleges, which produce engineers capable of realizing innovation, remains unchanged—the aim is human resource development that can make a significant contribution to social implementation.

Based on its educational philosophy, our institution aims to foster leading engineers who are imbued with a love of humankind and enhanced awareness of internationality and who desire to play an active role at the forefront of an information-oriented society, entrusting their dreams to science and technology. We intend to continue our efforts to improve the quality of education and research at Gifu Kosen, further strengthen regional cooperation, and reform education in response to societal changes. We look forward to your understanding of and support for our endeavors.

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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.

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.



Unuma Temporary School Building (1963)



Main Building I (1964)



Planting of zelkova (1983)

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.

Mar-2017 Library Center renovation.

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.

July-2019 The building of the Architecture was renovated.

Oct-2020 An international academic exchange agreement with RAJAMANGALA UNIVERSITY OF TECHNOLOGY THANYABURI, THAILAND was concluded.

Mar-2021 Main Building 1 (Office Building) and Women's Dormitory renovation. Tennis Court renovation.

Apr-2021 Dr. Eng. Shinichi Itsuno, the former Professor at Toyohashi University of Technology, took office as the ninth President.

Sep-2021 International dormitory Completion.

Mar-2022 Renovation of general classroom buildings and subject office buildings.

Jan-2023 Inspection by the Minister of Education, Culture, Sports, Science and Technology of NAGAOKA.

// The international academic exchange agreement with Singapore Republic Polytechnic in Singapore.

Mar-2023 Renovation of Main Building 4 and welfare facility "IBUKI".

Jun-2023 The international academic exchange agreement with KIUT, Kimyo International University in Tashkent, Uzbekistan.

Aug-2023 The international academic exchange agreement with EPU, Electric Power University in Vietnam.

// The international academic exchange agreement with HUEIC, Hue Industrial College in Vietnam.

Oct-2023 The commemoration ceremony for the 60th anniversary was held.



50th Anniversary of Founding Monument (2013)



Fifty Years of Gifu Kosen



Sixty Years of Gifu Kosen

Outline of NIT

1. Overview

The National Institute of Technology, Gifu College was established in April 1963 as a national five-year higher educational institution specializing in three departments: the Department of Mechanical Engineering, the Department of Electrical Engineering, and the Department of Civil Engineering. The Department of Architecture was added in 1968, followed by the Department of Electronic Control Engineering in 1988, which expanded the college to five specialized departments. Furthermore, in order to reform the curriculum in line with the progress and transformation of society, the Department of Civil Engineering was reorganized into the Department of Environmental and Urban Engineering in 1993, and the Department of Electrical Engineering was reorganized into the Department of Electrical Information Engineering in 2000. In addition, with the aim of further upgrading technical college education, a two-year course was established in 1995, allowing students to obtain bachelor's degrees. With the transition of national colleges of technology to an independent administrative institution from 2004, we set the goal to further "individualization, revitalization, and sophistication" and continue to aim for this objective to this day.

Our school mission is "to teach professionally specialized curricula, develop the abilities necessary for vocation, and develop talented people." In order for students to be able to play an active role as practical engineers in society, the five-year term of study, which combines the three years of senior high school and the first two years of university, constitutes an efficient five-year coherent education system in which a carefully selected curriculum is organized from among general education subjects similar to high schools and specialized subjects similar to universities.

Each specialized subject has its own curriculum that draws on the characteristics of each subject. The curriculum itself has been updated and improved in response to changes in society and pertinent requests, and policies for accepting students are established for each subject. The content of the specialized subjects to be studied at the college is equivalent to that of university-level courses. Through various experiments and practical training that emphasize "manufacturing" education, students will be able to acquire practical abilities to widely apply and develop the theories they have learned. In addition, after completing the five-year regular course, the students learn more deeply about the curriculum related to their specialized fields in their advanced courses at our college. In conjunction with this, there is a way to pay back society with the results of their studies through academic research activities.

The hallmark of our college's curriculum is that it continuously produces practical engineers capable of meeting industry expectations by providing in-depth small-group education that emphasizes hands-on learning, such as experiments, practical training, and practical skills, from an early stage after graduation from junior high school. In addition, in recent years, in order to acquire more advanced knowledge and skills, approximately half of the graduates of the regular course have chosen to go on to advanced courses or take career paths toward transfer to university.

Educational philosophy

1. Educational Philosophy

- (1) To entrust dreams to science and technology and to develop a love for humanity and community.
- (2) To aim to take an active role in the world with thriving globalization.
- (3) To be active at the forefront of the information society.

2. Engineers to be trained

Engineers who entrust their dreams to science and technology, who have acquired a love of humankind with a high degree of international awareness, and who play an active role at the forefront of the information society.

3. Educational policies (Three Policies)

Diploma Policy (Basic Policy for Graduation and Completion Certification)

Our school aims to develop the following human resources. Our school certifies graduation of students who have been enrolled for a fixed period of time, acquired the capabilities and skills listed below, acquired the specified number of credits for each department, and have passed the Graduation Research Examination to award the title of "Associate Degree (Engineering)." We also certify that the students have completed the credits stipulated by their major.

[Skills and capabilities that graduates should acquire]

(A) Ability to learn independently

- (1) To be able to self-manage, to have a sense of responsibility, teamwork skills, and physical strength that is required of engineers.
- (2) To have acquired future-oriented career design skills.

(B) Creative thinking

- (1) To be able to understand new issues and practical problems and to plan problem-solving on a voluntary basis.
- (2) To be able to carry out a plan continuously while making use of basic knowledge.

(C) International responsiveness

- (1) To be able to utilize the knowledge of humanities and social sciences to grasp social and environmental issues from a global perspective.
- (2) To be able to acquire communication skills in Japanese and one or more foreign languages.

(D) Specialized abilities

- (1) To be able to acquire basic knowledge and abilities in specialized fields based on mathematics and natural sciences.
- (2) To be able to acquire practical skills in measuring, processing, and interrogating data obtained through experimentation and practical training.

(E) Telecommunication technologies

- (1) To have acquired information literacy
- (2) To be able to gather, utilize, and disseminate information required in specialized fields through the use of information equipment, etc.

[Human resources to be developed in each department and major]

Department of Mechanical Engineering

The Department of Mechanical Engineering develops human resources who not only possesses basic academic abilities in (D) mechanical engineering to play an active role as mechanical engineers, but who also possess (A) key characteristics such as independence, diversity, and collaboration, and (B) creative thinking, (C) global communication abilities such as foreign languages, and (E) information and communications technology abilities that enable individuals to flexibly cope with sudden changes in social situations.

Department of Electrical and Computer Engineering

The Department of Electrical Information Engineering provides a balanced understanding of the basic dynamics of science and engineering, as well as the dynamics and technologies of electrical engineering, electronic engineering, and information engineering. In addition to acquiring such advanced (D)(E) specialized skills and knowledge, we develop science and technology personnel who (C) have acquired adequate social skills, (A) can independently learn, think, and solve problems, (B) and who are rich in creativity and inquisitiveness, aiming to meet the demands of society.

Department of Electronic Control Engineering

The Department of Electronic Control Engineering will develop human resources with (A) proactive learning ability that can challenge new technological fields as engineers by firmly acquiring (D) expertise in electrical, electronic, control, and machine-related fields, which are the basis of electronic control technology, (B) creative thinking skills that enable them to operate and construct electronic control systems, (C) the ability to respond with a global perspective and understanding of overseas culture and communicate using foreign languages in a globalizing society, specialized knowledge and technical ability in the electronic control field, and the ability to freely utilize computer and other information devices, that is, (E) information and communication technology.

Department of Civil Engineering

The Department of Environmental and Urban Engineering trains practical engineers with creative thinking skills to understand the basic (D) expertise and concepts regarding the creation of a recycling-oriented city that harmonizes with nature and reduces negative environmental impacts, (C) (E)utilize information and communications technology to enhance social infrastructure development that supports the sustainable development of humankind from an international perspective, (A) actively promote ideas with independence, diversity, and collaboration, and (B) develop creative thinking skills.

Department of Architecture

The Department of Architecture will develop human resources who possess (D) specialized technology and (E) information and communications technology, (A) the ability to integrate the building and urban spaces with independence, diversity, and collaboration, and (C) the ability to communicate internationally and (B) creatively, with the ability to think, judge, and express themselves in order to construct spaces where human beings carry out their existence in society.

Advanced Course of Interdisciplinary Technology Development

The advanced course of interdisciplinary technology development will (D) work to further deepen specialized fields and develop human resources with the ability to contribute to the sustainable development of the world through (A) creative thinking and flexible (C) international response capabilities and (E) information and communications technology with (B) creative thinking and expressiveness such as independence, diversity, and collaboration, through problem-solving methods that combine mechanical engineering, electronics, information engineering, civil engineering, and architecture with an understanding of technical systems in different fields.

Curriculum Policy (Basic Policy for Formulation and Implementation of Curricula)

In order to develop the abilities listed in the diploma policy, our school has prepared the following groups of subjects.

[Common for all departments and majors]

(A) Ability to learn independently

In order to cultivate proactive learning attitudes, we have prepared motivational courses and introductory courses for each specialized subject in the first few years. In addition, various experimental, practical, and training courses are offered for each academic year with the aim of acquiring skills such as self-management, a sense of responsibility, teamwork skills, and leadership. We also aim to become physically and mentally healthy engineers who can continue activities throughout our lives. We have prepared courses related to health and physical education and career development support programs, as well as activities in which students participate on their own initiative.

(A-1) Cultivating independence (A-2) Physical and arts education (A-3) Career design ability

(B) Creative thinking

Creative engineering experiments, practical exercises, and graduation studies as well as special studies are provided in each department and major to develop the ability to identify problems and to solve problems, from initial planning to final execution. The major also offers cross-sectional practical courses aimed at cultivating abilities in different fields.

(B-1) Creative activities (B-2) Engineering design ability

(C) International responsiveness

We have prepared general liberal arts subjects (humanities and social sciences) from lower grades that are required for global engineers. In addition, English as an internationally accepted communication tool is taught at all grade levels, and second foreign languages are offered in senior classes.

(C-1) Liberal arts (C-2) Communication skills

(D) Specialized skills

<Associate degree>

Subjects related to mathematics, the natural sciences, and the foundation of engineering required in all specialized fields are mainly taught in the lower grades, and a group of subjects such as specialized engineering, engineering experiments and practical training, and engineer ethics are arranged in a wedge-shaped format as the grade progresses. This ensures that specialized skills and practical techniques are efficiently acquired.

(D-1) Science (D-2) Basic engineering (D-3) Specialized fields (D-4) Engineering ethics

<Advanced Courses>

We have prepared a group of courses that further deepen the skills of each specialized field (mechanical engineering, electrical and electronic engineering, information engineering, civil engineering, and architecture) that have been acquired in the associate bachelor's program. We also have a set of subjects to acquire the necessary skills to develop new manufacturing through problem-solving methods that combine different fields.

(D-1) Science (D-2) Advanced interdisciplinary technology development

(D-3) Specialized fields (mechanical engineering, electrical and electronic engineering, information engineering, civil engineering, architecture)

(D-4) Engineer ethics

(E) Telecommunication technologies

Information literacy courses are offered in lower grades, and practical courses are provided to improve information processing skills and subjects using information equipment, etc.

(E-1) Information literacy (E-2) Information equipment utilization skills

Below is an explanation of the characteristics of each subject group offered by each department.

General education subjects

▶ A group of subjects to cultivate the ability to learn independently in general education subjects

Practical physical education classes are offered from the first grade to the fourth grade in order to cultivate physical and mental health and organizational strength. In addition, social studies courses are offered to cultivate practical thinking skills.

▶ A group of subjects to cultivate the ability to respond internationally in general education subjects

We offer language and social studies courses in order for students to acquire the basics of language and humanities necessary for global human resources.

▶ A group of subjects to cultivate the specialized skills in general education subjects

In addition to mathematics, physics, and chemistry, which form the foundation of engineering, we also offer comprehensive science-related subjects that include biology and geography.

Department of Mechanical Engineering

▶ A group of subjects to cultivate the ability to learn independently in the Department of Mechanical Engineering

Introductory education courses related to manufacturing are offered in the first grade, and courses related to practical training and exercises in the mechanical design genealogy course, machine processing course, and mechanical engineering experiment course are offered in each grade from the second grade onwards.

▶ A group of subjects for developing creative thinking in the Department of Mechanical Engineering

In order to cultivate problem-solving skills, we offer courses for practical training in the fourth year and graduation studies in the fifth year.

▶ A group of subjects to acquire international responsiveness in the Department of Mechanical Engineering

In addition to foreign language courses, we offer courses dealing with English in specialized fields.

▶ A group of subjects related to the specialized skills of the Department of Mechanical Engineering

In addition to basic subjects related to the four mechanics of mechanical engineering (materials mechanics, thermodynamics, hydrodynamics, and mechanics), we also provide lectures related to boundary areas, experimental subjects, and practical subjects.

▶ A group of subjects for acquiring information and communications technology in the Department of Mechanical Engineering

In the lower grades, basic subjects for information literacy are offered, and advanced subjects such as information processing or numerical calculation methods are offered according to the progress of the grade.

Department of Electrical and Computer Engineering

▶ A group of subjects to cultivate the ability to learn independently in the Department of Electrical Information Engineering

In order to cultivate the ability to solve problems through independent learning, we offer practical subjects in senior grades and graduation studies in the fifth year.

▶ A group of subjects to develop creative thinking in the Department of Electrical Information Engineering

In the first grade, we provide basic education to develop creative thinking, and in each grade from the second grade onwards, we cultivate creative thinking through experiments related to electrical information engineering.

▶ A group of subjects to acquire international responsiveness in the Department of Electrical Information Engineering

In addition to foreign languages, which are offered as general education subjects in the Department of Electrical Information Engineering, we offer courses to develop English and communication skills in specialized fields.

▶ A group of subjects related to the specialized abilities of the Department of Electrical Information Engineering

We have devised ways of enhancing our specialized abilities by providing courses, exercises, and experimental and practical training courses in the basic and applied subjects of electronics and information engineering related to electrical information engineering.

▶ A group of subjects for acquiring information and communications technology in the Department of Electrical Information Engineering

In the lower grades, basic subjects related to information and communications technology, including programming, are offered, and in the higher grades, more advanced programming courses and specialized courses essential for information and communications technology are provided.

Department of Electronic Control Engineering

▶ A group of subjects to cultivate the ability to learn independently in the Department of Electronic Control Engineering

Introductory education and practical training courses related to the electronic control field are offered in Grade 1, and electronic control drafting courses and experimental and practical training courses are provided in Grades 2 to 4.

▶ A group of subjects to develop creative thinking in the Department of Electronic Control Engineering

In order to cultivate problem-solving abilities, we offer subjects related to experiments and practical training in the fourth grade and graduation studies in the fifth grade.

▶ A group of subjects to acquire international responsiveness in the Department of Electronic Control Engineering

Along with offering foreign language subjects, we offer specialized subjects and graduation studies that deal with English expressions in specialized fields of electronic control engineering.

▶ A group of subjects related to the specialized abilities of the Department of Electronic Control Engineering

We offer specialized subjects related to electrical and electronic engineering, specialized subjects related to mechanical engineering, specialized subjects related to information and control systems, and experimental subjects.

▶ A group of subjects for acquiring information and communications technology in the Department of Electronic Control Engineering

In the lower grades, we offer information processing subjects to learn about information literacy and provide information processing and information communication subjects to learn about information processing languages and data processing according to the progress of the academic year.

Department of Civil Engineering

▶ A group of subjects to cultivate the ability to learn independently in the Department of Environmental and Urban Engineering

Introductory education subjects are offered in the first grade, and practical and exercise-related subjects are provided in each grade from the second grade onwards to foster students' career planning.

▶ A group of subjects to develop creative thinking in the Department of Environmental and Urban Engineering

Courses to develop problem-solving skills are mainly offered for senior students.

▶ A group of subjects to cultivate international responsiveness in the Department of Environmental and Urban Engineering

In addition to foreign language courses, we provide courses, mainly for senior students, that foster the ability to communicate by grasping cultural and social issues.

▶ A group of subjects related to the specialized skills in the Department of Environmental and Urban Engineering

We offer courses in five major fields (structural system, ground system, hydrological science system, environmental system, and planning system) in parallel with classroom study, experiments, and practical training. In the fifth grade, we also provide a selection of cross-disciplinary, academic, and practical subjects.

▶ A group of subjects for acquiring information and communications technology in the Department of Environmental and Urban Engineering

In addition to acquiring information literacy in the lower grades, we offer basic courses that use information equipment and provide specialized courses that apply information and communications technology to senior grades.

Department of Architecture

▶ A group of subjects to cultivate the ability to learn independently in the Department of Architecture

Introductory education subjects comprehensively covering architecture are offered in the first grade. Training courses are offered to enable students to acquire basic skills in the first and second grades, and subjects related to experiments and exercises are provided in and after the third grade.

▶ A group of subjects for developing creative thinking ability in the Department of Architecture

Courses to develop problem-solving skills are mainly provided for senior students.

▶ A group of subjects for acquiring international responsiveness in the Department of Architecture

In addition to foreign language courses and courses in basic areas of expertise dealing with English, we also offer courses for understanding architecture and cities from a global perspective.

▶ A group of subjects related to the specialized skills in the Department of Architecture

In addition to the basic subjects related to the three systems (planning, structure, and environment) of the Department of Architecture, we offer experimental training-related subjects that conduct more practical learning in parallel with lectures. The fifth grade also offers practical courses and courses related to more advanced specialized technology.

▶ A group of subjects for acquiring information and communications technology in the Department of Architecture

We offer courses to learn everything from the basics and literacy of information technology to its utilization.

Advanced Courses of Interdisciplinary Technology Development

▶ A group of subjects to cultivate the ability to independently learn in the Advanced Course of Interdisciplinary Technology Development

Practical experimental training courses are offered from the first year, and from the second year, special research is offered to integrate the totality of experimental practical training courses and educational courses that foster social problem-solving abilities.

▶ A group of subjects to develop creative thinking in the Advanced Course of Interdisciplinary Technology Development

We offer practical courses to cultivate creative thinking, special research to integrate experimental practical training courses, and educational courses that foster social problem-solving abilities.

▶ A group of subjects to acquire international responsiveness in the Advanced Course of Interdisciplinary Technology Development

In order to cultivate the ability to respond internationally, we offer social ethics courses that foster general education and English courses that foster communication skills.

▶ A group of subjects related to the specialized skills in the Advanced Course of Interdisciplinary Technology Development

Based on mechanical engineering, electrical and electronic engineering, information engineering, civil engineering, and architecture and in addition to a group of subjects including fusion of various fields, science and mathematics and engineering ethics courses are available.

▶ A group of subjects to acquire information and communications technology in the Advanced Course of Interdisciplinary Technology Development

In order to cultivate information and communications technology, we offer lectures and experimental practical training courses in information engineering that foster the ability to utilize information equipment.

[Performance Evaluation and Credit Certification Criteria]

Accreditation for the acquisition of credits in these subjects will be done in the following way based on the syllabus of each subject.

- Performance evaluations are conducted mainly by comprehensively examining the periodic exams, submissions, and the status of regular learning, etc., and the evaluation criterion is to pass 60% or more of the total score.
- Acquiring credits for the courses taken will be certified with the following grade rating of 6 or higher.

Total Score (%)	10-step display	Point classification
More than 80	10~8	A
70 to less than 80	7	B
60 to less than 70	6	C
Less than 60	5~2	Fail

Admissions Policy (Basic Policies for Selection)

The college is firmly committed to the mission of further enhancing the original appeal of technical colleges, which differ from high schools and universities. In addition to academic and creative abilities that can flexibly respond to the rapid changes accompanying the internationalization and sophistication of Japan's industrial structure, the college aims to develop engineers with a deep sense of humanity and strong ethical standards who are also considerate of the environment. Based on this educational philosophy, the college's admission policy is to accept students with the following abilities and motivation, based on the diploma policy. Specifically, we are seeking individuals with the following characteristics:

[Students enrolling in the regular course]

1. Those with basic academic ability
2. Those who have basic communication skills and who want to play an active role from a global perspective
3. Those who are independently engaged in study and extracurricular activities
4. Those who have a strong scientific curiosity and want to contribute to the development of people and local communities through manufacturing

[Students transferring to the fourth year]

1. Those who are trying to acquire basic academic abilities and who want to acquire further specialized knowledge
2. Those who are curious and always strive to acquire knowledge and develop their abilities
3. Those who want to contribute to society by utilizing the knowledge they have acquired

The college selects its students in accordance with the following policies.:

[Basic policies for selection for the regular course]

[Selection based on recommendation]

In the selection process based on recommendation, students' basic academic ability is assessed based on a report submitted by the head of a junior high school that reflects the candidate's attitudes. In addition, a candidate's engagement with independent learning, their thinking, judgment, and expressiveness are assessed in interviews conducted by our school.

[Selection by academic ability]

In the selection process based on academic ability, students deemed to have the basic academic ability necessary to receive education at our school are selected based on their performance in the examination and the written report submitted by the head of the previous school, such as the junior high school. The exam is a written exam and consists of four subjects: Japanese, mathematics, English, and science. The report also evaluates the individual's attitudes toward learning, thinking, judgment, and expressiveness.

[Special selection for returnees]

In the case of returnees, a special selection process is applied. Interviews (including oral exams (science, English, mathematics)) and reports from their previous schools will be used to make a comprehensive judgment.

[Basic policies for selection for transfer to the fourth year (to enroll in the advanced course)]

New entrants are selected based on their performance in the examination, reports submitted by the head of their previous school, and interviews. The major course aims to teach advanced specialized knowledge and techniques related to the industry to a deeper degree, building on the basics taught by technical colleges and to instruct students in their research. Based on this educational philosophy, students are selected with reference to the following abilities and motivation based on the diploma policy. Specifically, we are seeking the following characteristics:

[Students enrolling in the advanced course]

1. Those who have an international perspective and aim to acquire the technical abilities of manufacturing that contribute to the sustainable growth of the world through the fusion of advanced technologies
2. Those who seek to acquire an integrated development ability that can bring about innovative value creation through creative methods in response to requests from industry
3. Those who have mastered basic specialized subjects in regular technical colleges and others and who have a strong desire for interdisciplinary study and research

In our advanced course, students are selected in accordance with the following policy:

[Basic policy for selection for the advanced courses]

Those with sufficient academic ability, purpose, and motivation to learn are selected for the major courses. There are three methods of selection: "selection by recommendation," "selection by academic ability (first semester and second semester)," and "special selection for professionals."

[Selection by recommendation]

In the process of selection by recommendation, the candidate's basic academic ability is assessed based on recommendation and reports from the head of the technical college or the head of the department to which they are applying. Their attitudes to independent learning as well as the ability to think, judge, and express themselves are assessed based on the self-declaration form and the interview. Selection is made based on the comprehensive consideration of the two aspects.

[Selection by academic ability]

In the process of selection by academic ability, the candidate's basic academic ability is assessed by the reports by the head of the school the candidate is studying at as well as an examination. Their attitudes for independent learning as well as the ability to think, judge, and express themselves are assessed by a self-declaration form. Selection is made based on comprehensive consideration of both aspects.

[Special selection for professionals]

In the process of special selection for professionals, the candidate's basic academic ability is assessed by the report submitted by the head of the school where the candidate studied. Their attitudes toward independent learning as well as the ability to think, judge, and express themselves are assessed by recommendation from the current employer, a self-declaration form, and an interview. Selection is made based on comprehensive consideration of all aspects.

4. Educational objectives

Associate degree

- (1) To develop engineers with broad perspectives who are independent, motivated, and well-educated
- (2) To developing engineers with basic academic ability, creativity, application ability, and practical skills
- (3) To train engineers with international communication skills and the ability to use advanced information technology
- (4) To train engineers with an ethical view of engineering technology
- (5) To train engineers who can contribute to society through educational and research activities

Advanced course

- (1) To further deepen specialized fields of excellence and to train engineers who understand different fields and have the ability to think across multiple fields
- (2) To train engineers with problem-solving abilities that can creatively investigate, plan, design, and manage the issues that society faces, and continuously analyze, implement, and improve methods to address them
- (3) To train engineers with accurate Japanese language and internationally acceptable communication skills
- (4) To train engineers with the ability to build programs in specialized fields using advanced information technology
- (5) To develop engineers who can make ethical judgments from diverse and global perspectives, understand the social responsibilities of engineers, and contribute to the local community

5. Specific learning and educational objectives in academic abilities and qualifications for the Department and the advanced course

Specific learning and educational objectives in academic abilities and qualifications to be developed in each department and the advanced course are defined in relation to the diploma policy: (A) independent learning ability, (B) creative thinking ability, (C) international response ability, (D) expertise, and (E) information and communication technology. our school also has five objectives for students. The following table shows how they relate to the basic policy for education (diploma policy).

Correspondence between the Basic Policy for Education (Diploma Policy) and Educational Objectives

(Associate Bachelor's Program)

◎ particularly relevant, ○ relevant

Educational objectives	Basic educational policies (diploma policy)				
	(A) Ability to learn independently	(B) Creative thinking ability	(C) International responsiveness	(D) Expertise	(E) Information and communication technology
(1) To develop engineers with broad perspectives who are independent, motivated, and well-educated	◎	○			
(2) To developing engineers with basic academic ability, creativity, application ability, and practical skills		◎		◎	
(3) To train engineers with international communication skills and the ability to use advanced information technology			◎		◎
(4) To train engineers with an ethical view of engineering technology	◎				
(5) To train engineers who can contribute to society through educational and research activities	○	◎		◎	
Areas of expertise	Broad general education	Manufacturing	Internationalization	Profound expertise	IT

(Advanced Course)

◎ particularly relevant, ○ relevant

Educational objectives	Basic educational policies (diploma policy)				
	(A) Ability to learn independently	(B) Creative thinking ability	(C) International responsiveness	(D) Expertise	(E) Information and communication technology
(1) To further deepen specialized fields of excellence and to train engineers who understand different fields and have the ability to think across multiple fields				◎	
(2) To train engineers with problem-solving abilities that can creatively investigate, plan, design, and manage the issues that society faces and continuously analyze, implement, and improve methods to address them		◎			
(3) To train engineers with accurate Japanese language and internationally acceptable communication skills			◎		
(4) To train engineers with the ability to build programs in specialized fields using advanced information technology					◎
(5) To develop engineers who can make ethical judgments from diverse and global perspectives, understand the social responsibilities of engineers, and contribute to the local community	◎				
Areas of expertise	Broad general education	Manufacturing	Internationalization	Profound expertise	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.

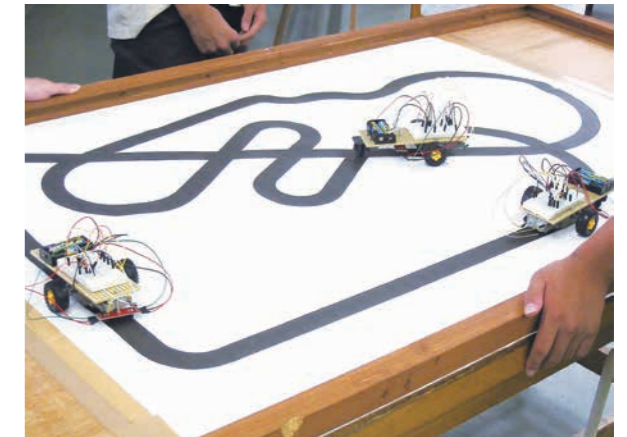
Regional contributions

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)



Kinokuni Robot Competition for Junior High School Students



Let's design the robot to follow a line

General Education

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



Introduction of General Education Subjects

Engineers who will shoulder the responsibilities of the 21st century must acquire advanced knowledge and practical skills in each engineering field. Likewise, it is important to foster individuals who are trustworthy, possess a rich culture and a broad perspective that encompasses the two fields of humanities and natural sciences, and have both goodwill and good sense.

In order to develop such human resources, our general courses are designed to avoid any overlap between the content of regular high schools with liberal arts subjects at universities while adopting a unique curriculum that emphasizes the basics of specialized education. In addition, we provide easy-to-understand classes using the latest educational equipment so that students can cope with the complexities of internationalization and the information age. We also devote our energies to the cultivation of personalities.

Vision of Human Resources to be Trained in General Education Subjects (Humanities)

What the present age demands is sophisticated expertise with specialized knowledge and skills and masterful knowledge of international affairs and the history of mankind, coupled with a high level of insight based on a firm sense of ethics. The willingness and ability to communicate in order to acquire such knowledge are also required. The desired result is a human being who manipulates technology, information, and knowledge, and general education subjects (humanities) to tackle the basic and practical education necessary for a sound foundation.

Based on the above, the "Vision of human resources to be trained" in the general education subjects (humanities) is as follows.

Vision of human resources to be trained

- Those with a broad perspective and ethical standards, which enable them to understand the historical backgrounds and cultures of mankind and to consider social issues while respecting the positions of others and other countries
- Those who are not only able to communicate sufficiently in Japanese but also able to accept and transmit in foreign languages without prejudice to other cultures, utilizing their acquired broad perspectives, high level of awareness, and ethics in the real world

Vision of Human Resources to be Trained in General Education Subjects (Natural Sciences)

In order to utilize and develop engineering for the benefit of human beings, it is important to understand the laws of nature such as physics and chemistry, which are the foundation of engineering, and to cultivate scientific ideas. Mathematics is an indispensable means for appropriately expressing the laws of nature, so we have to learn enough about its methods and ways of thinking.

In order to lead a healthy life while utilizing the results of science and technology in modern society, knowledge of health needs to be mastered, and the utility of physical education on the mind and body must be understood experientially.

Based on the above, the following "Vision of human resources to be trained" is pursued in general education subjects (natural sciences).

Vision of human resources to be trained

- Those with basic knowledge of mathematics and natural sciences and the ability to apply it to specialized fields
- Those who have knowledge of mental and physical health and can lead healthy lives

Curriculum Policies (Basic Policies for the Formulation and Implementation of Curricula)

▶ A group of subjects to cultivate the ability to learn general education subjects independently

Practice-based physical education is offered from the first grade to the fourth grade in order to cultivate physical and mental health and organizational strength. In addition, social studies courses are offered to cultivate practical thinking skills.

▶ A group of subjects to cultivate the ability to respond internationally to general education subjects

We offer language and social studies courses in order to equip students with the basics of language and humanities necessary to meet the demand for global human resources.

▶ A group of subjects to cultivate the specialized abilities of general education subjects

In addition to mathematics, physics, and chemistry, which form the foundation of engineering, we also offer comprehensive science-related subjects, including biology and geography.

Curriculum of General Education(Students enrolled after 2018)

	1st	2nd	3rd	4th	5th
Japanese A	2	Japanese	2	Japanese	2
Japanese B	2	Ethics	2	Politics and Economics	2
World History	2	Japanese History	2	Modern Social Studies and Law	2
Geography	2	Mathematics A I	2	Mathematics A II	2
Mathematics A I	2	Mathematics A II	2	Physical Education	2
Mathematics A II	2	Mathematics B	2	English A	2
Mathematics B	2	Physics B I	2	English C	2
Physics A	1	Physics B II	2	German	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	(◎1) KUBOTA, Keiji	M. Ed.	Civics
	NAKASHIMA, Izumi	M. Sc.	Mathematics
	(◎2) YAMAMOTO, Hiroki		Health, Physical Education
	MAGUSA, Atsushi		Health, Physical Education
	NAKAJIMA, Yasutaka	D. A.	Japanese
	OKAZAKI, Takanobu	D. Sc.	Mathematics
	(※1) NONOMURA, Sakiko	M. A.	English
	(※2) KAN, Nahomi	D. Sc.	Physics
Associate Professor	ASATO, Yoko	Ph. D.	English
	KITAGAWA, Shinya	D. Sc.	Mathematics
	KATADA, Yoko	Ph. D.	Japanese
	KOBAYAKAWA, Yugo	D. Ec.	History, Civics
	SATAKE, Naoki	M. Ed.	English
	YAGI, Shintaro	D. Sc.	Mathematics
Lecturer	WATANABE, Shin	D. Sc.	Physics
	KODAMA, Eri	Ph. D.	Geography, Civics
	OKAMOTO, Naomi	Ph. D.	English
	HIGUCHI, Chihiro	Ph. D.	Japanese
	AKAGAWA, Yoshiho	D. Sc.	Mathematics
	KOIZUMI, Yoshiki	M. A.	English
Assistant Professor	KATSUNO, Daisuke	M. Ed.	Health, Physical Education
	SHIMABUKURO, Izuru	Ph. D.	Chemistry
Commissioned Professor	UEHARA, Toshiyuki	D. Eng.	Chemistry
	KAMEYAMA, Taichi	M. Ed.	English

◎1 Chairman of Department(Liberal Arts) ◎2 Chairman of Department(Science) ※1 Director of Student Counseling Center ※2 Dean of Dormitory Affairs



e-Learning in English Class



Mathematics Class



Physical Education Class

Department of Mechanical Engineering

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



Introduction to the Department of Mechanical Engineering

The Department of Mechanical Engineering aims to develop practical and creative engineers such as mechanical design engineers and machining engineers (production techniques). The curriculum is structured to accomplish this, and from third to fifth year specialized lectures are given using textbooks used in university faculties. In order to develop practical skills, we also enhance knowledge of technical subjects such as mechanical design drawing, machining, and engineering experiments.

In order to adapt to the development of transportation equipment technology, IT technology, and robotics technology in aircraft and automobiles in recent years, the curriculum has been comprehensively revised every five years, and consideration is given to producing human resources that meet the demands of the industry as appropriate. The faculty is centered on mechanical engineering, and each of them has a specialized field spanning a wide range of interdisciplinary fields, including boundary areas. They not only develop high-quality educational activities but also play a diverse role as researchers by presenting research results at academic societies and contributing to local communities.

The career paths of the graduates are diverse and based on the favorable evaluation of companies; approximately half of the classes are employed as career-track engineers in companies. The other half are either enrolled in major courses at our institution or enrolled in the third year of university, having chosen to further deepen their expertise as mechanical engineers and broaden their range of human abilities.

Vision of Human Resources to be Trained in the Department of Mechanical Engineering and Learning and Educational Objectives

Mechanical engineering is an interdisciplinary field that forms the basis of "monozukuri" (manufacturing) technology. *Monozukuri* consists of two stages: (1) machine design, which is the planning stage of machinery products, and (2) machine production, a stage in which the designed products are produced.

Machine design is the expression of creative work that can only be realized by consolidating and integrating the wisdom and experience of machine engineers. It is critical that students aiming to be machine engineers acquire knowledge of mathematics, physics, information technology, etc., which are the basis of machine design technology. In addition, on the basis of these sciences and technology, they must acquire the mechanics-related subjects centering on "material mechanics," "hydrodynamics," "thermodynamics," and "mechanics," which are directly connected to machine design technology.

Machine fabrication is a noble creative process in which an image of a product devised by a mechanical design engineer takes form as an actual product. Machine engineers have a heavy responsibility to find and realize optimal processing conditions under the preexisting constraints including ① economics, ② quality, ③ construction period, or ④ environmental conservation and safety. Students aiming to be machine engineers must acquire not only practical abilities regarding production machine operation but also knowledge of subjects such as "machine tools," "measurement engineering," "control engineering," and "production engineering," which are closely linked to production technology.

On the other hand, to manufacture efficiently, machine engineers need to acquire IT technology as a tool. In addition, at home and abroad "communication ability" and "ethical conduct" are required in order to be active as a member of a "monozukuri team." Thus, students aiming to become machine engineers are expected to nourish these abilities.

Based on the above, the following "Vision of human resources to be trained" and "Learning and educational objectives" are pursued in the Department of Mechanical Engineering.

Vision of human resources to be trained

The Department of Mechanical Engineering develops human resources who not only possesses basic academic abilities in (D) mechanical engineering to play an active role as mechanical engineers, but who also possess (A) key characteristics such as independence, diversity, and collaboration, and (B) creative thinking, (C) global communication abilities such as foreign languages, and (E) information and communications technology abilities that enable individuals to flexibly cope with sudden changes in social situations.

Learning and Educational Objectives

(A) To acquire ethics

(A-1) To acquire an ethical foundation as an individual who understands historical backgrounds and cultures of mankind and can grasp social issues by respecting the positions of others and other countries.

(A-2) To acquire an ethical foundation as a machine engineer who is aware of their responsibility for the effects of machine technology on the global environment.

(A-3) To develop engineers who are both physically and mentally healthy; to acquire health management skills and physical fitness; and to widen one's horizons to enrich one's life by learning to appreciate art, collaborative attitudes, creativity, and imagination.

(B) To acquire the basics of design ability.

(B-1) To acquire the basis of the ability to understand problems and new issues in mechanical technology and to plan how to solve problems spontaneously with rich ideas.

(B-2) To acquire the basics of comprehensive design skills to make use of basic knowledge of mechanical engineering and to continue working on the plan by analyzing and executing it so as to produce an excellent paper drawing from findings.

(C) To acquire communication skills.

(C-1) To acquire basic skills to describe, present, and debate in Japanese. (C-2) To acquire basic communication skills that are internationally applicable.

(D) To acquire basic knowledge and skills in mechanical engineering and in its interdisciplinary fields as its foundation, as well as in their boundary areas.

(D-1) To acquire basic knowledge of mathematics and natural sciences and related problem-solving skills.

(D-2) To acquire basic knowledge and abilities in basic engineering (designs and systems, information and logic, materials, and dynamics).

(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

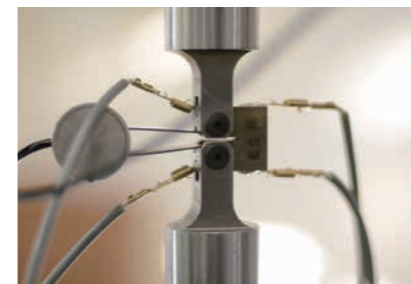
1st	2nd	3rd	4th	5th
(Required Subjects)	(Required Subjects)	(Required Subjects)	(Required Subjects)	(Required Subjects)
Fundamentals of Manufacturing Engineering 3	Metal Cutting and Casting Process I 1	Applied Physics I 2	Applied Mathematics I 1	Production Engineering 1 1
(Subtotal) 3	Metal Cutting and Casting Process II 1	Fundamentals of Mechanics 2	Applied Mathematics II 1	Engineering Ethics 1 1
	Information Literacy 1	Mechanism 2	Applied Mathematics III 1	Graduation Research 8
	Machinery Design and Drafting I 2	Strength of Materials I 2	Applied Physics II 1	(Subtotal) 10
	Mechanical Engineering Practice I 3	Material Technology I 1	Machinery Dynamics I 1	(Elective Subjects)
	(Subtotal) 8	Instrumentation Technology 1	Machinery Dynamics II 1	Applied Physics III 2
		Machine Design I 1	Strength of Materials II 1	Fluid Mechanics II 2
		Information Processing I 1	Strength of Materials III 1	Thermodynamics II 2
		Numerical Calculation 1	Fluid Mechanics I 2	Energy Engineering 2
		Machinery Design and Drafting II 2	Thermodynamics I 2	Heat Transfer 2
		Mechanical Engineering Experiment I 2	Material Technology II 1	Material Technology III 2
		Mechanical Engineering Practice II 3	Metal Cutting and Casting Process II 1	Control Engineering II 2
		(Subtotal) 20	Control Engineering I 1	Introduction to Electrical and Electronic Engineering 2
			Machine Design II 1	Engineering Analysis 2
			Information Processing II 1	Fundamentals of Continuum Mechanics 2
			Mechanical Engineering Experiment II 2	System Engineering 2
			Engineering Practice 3	Mechatronics 2
			Exercise in Mechanical Engineering 1	Robot Engineering 2
			Topics of Mechanical Engineering 2	Advanced Mechanical Engineering 2
			(Subtotal) 25	Total Credits 28
				Total of Necessary Credits on Elective Subjects 20 and more



Mechanical Engineering Practice

Academic Staff

Title	Name	Degree	Subjects in Charge
Professor	© (Chairman of Department) ISHIMARU, Kazuhiro	D. Eng.	Thermodynamics
	Dean of Advance Course KATAMINE, Eiji	D. Eng.	Machine Design
	Dean of Technical Center YAMADA, Minoru	D. Eng.	Control Engineering
	MIYAFUJI, Yoshitaka	D. Eng.	Mechanical Engineering Practice
Associate Professor	YAMAMOTO, Takahisa	D. Eng.	
	SHIMAMOTO, Kumiko	D. Eng.	Material Technology
Lecturer	KUMADA, Keigo	D. Eng.	Machinery Design and Drafting
	SATO, Atsushi	D. Eng.	Applied Physics
Assistant Professor	IMAI, Shinya	M. Eng.	Fluid Dynamics
	KISHIDA, Masayuki	D. Eng.	Information Processing
Commissioned Professor	OGURI, Hisakazu	M. Eng.	Strength of Materials



Fatigue Test of Metallic Materials



Engineering Analysis



Fundamentals of Manufacturing Engineering

Department of Electrical and Computer Engineering

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



Introduction of Department of Electrical and Computer Engineering

The Department of Electrical Information Engineering is a new course that enables students to learn about the field of electrical and electronic engineering, which uses electricity as energy and signals, and the field of information engineering, which is related to computers and information and communications. In senior years, a course-based system is adopted to develop more specialized abilities in each field.

As the information and communications revolution advances, students in the first few years learn a wide range of basics of electrical and electronic engineering and information engineering, which are expected to develop even more in the 21st century. In addition to classroom lessons, we will conduct sufficient experiments and practical training using laboratory equipment related to electrical and electronic engineering incorporating state-of-the-art equipment, as well as UNIX networking classrooms dedicated to academic subjects. In addition, by providing many opportunities for various contests and presentations, we will develop presentation skills and evaluation and improvement proposal abilities.

In the senior years, students are divided into one of two tracks: electronics and information engineering, each studying more specialized topics in accordance with an independent curriculum. We will foster practical engineers' full creativity by incorporating creative themes into experiments and practical training. Moreover, the curriculum pays due consideration to leeway as part of learning.

Vision of Human Resources to be Trained in the Department of Electrical and Computer Engineering and Learning and Educational Objectives

The Department of Electrical Information Engineering aims to develop international, ethical engineers as human resources who can respond to the recent rapid progress in electrical, electronic, and information technologies as well as to the development of various technologies in the future. In order to achieve this, the department promotes independent learning in acquiring basic skills and knowledge in the fields of electricity, electronics, and information, which form the foundation of an information society, coupled with highly specialized technologies and knowledge. To efficiently achieve this objective, the department introduces a curriculum in which each course is tailored to the student's qualities from the fourth year. Students are divided into an electronics track and an information engineering track to ensure efficient acquisition of specialized skills and knowledge. The curriculum also allows students to acquire basic knowledge and technology in the fields of electricity, electronics, and information in a balanced manner so that they develop into engineers with highly specialized skills and knowledge who can respond to societal needs.

Based on the above, the Department of Electrical and Information Engineering pursues the "Diploma policy" shown below.

Diploma Policy (Basic Policy for Graduation and Completion Certification)

The Department of Electrical and Computer Engineering provides a balanced understanding of the basic dynamics of science and engineering, as well as the dynamics and technologies of electrical engineering, electronic engineering, and information engineering. In addition to acquiring such advanced (D)(E) specialized skills and knowledge, we develop science and technology personnel who (C) have acquired adequate social skills, (A) can independently learn, think, and solve problems, (B) and who are rich in creativity and inquisitiveness, aiming to meet the demands of society.

Curriculum Policy (Basic Policy for Formulation and Implementation of Curricula)

▶ A group of subjects to cultivate the ability to learn independently in the Department of Electrical and Computer Engineering.

In order to cultivate problem-solving skills through independent learning, we have prepared internship-related subjects in senior years and graduation studies in the fifth year.

▶ A group of subjects to develop creative thinking in the Department of Electrical and Computer Engineering

In the first grade, we provide basic education to develop thinking skills, and from the second grade onwards, we cultivate creative thinking ability through experiments related to electrical information engineering.

▶ A group of subjects to acquire international responsiveness in the Department of Electrical and Computer Engineering

In addition to foreign languages, which are taught in the Department of Electrical and Computer Engineering as a general subject, we offer courses to develop English and communication skills in specialized fields.

▶ A group of subjects related to specialized skills in the Department of Electrical and Computer Engineering

We have devised ways of enhancing our specialized skills by providing courses, exercises, and experimental and practical training courses in the basic and applied subjects of electronics and information engineering related to electrical information engineering.

▶ A group of subjects for acquiring information and communications technology in the Department of Electrical and Computer Engineering

In the first few years, basic subjects related to information and communications technology, including programming, are offered, and in the later years, specialized subjects essential for more advanced programming and information and communications technology are offered.

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 I 2 Electric Circuit I 2	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 Power Transmission and Distribution Engineering 2 Laws and Regulations of Electricity 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 Overseas Training I 1 Overseas Training II 2 Overseas Training III 3 Overseas Training IV 4 Overseas Training V 5 Overseas Training VI 6 (Subtotal) 53
2nd	20	6	6	
<Required Subjects>	Electrical and Computer Engineering Fundamental Seminar 2 Electric Circuit Engineering 2 Computer Architecture 2 Programming and Its Seminar 2 Programming and Its Seminar 2 Scientific and Technical English 1 Electrical and Computer Engineering Laboratories 4 (Subtotal) 20	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 Engineering Laboratories 2 Electromagnetics II 1 Electric Circuit II 1 Electric Machinery 2 (Subtotal) 6	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	(※1) YASUDA, Makoto	D. Eng.	Mathematics in Computer Science, Information Theory
	DEGUCHI, Toshinori	D. Eng.	Data Structures and Algorithms, Formal Language Theory
	TOMITA, Mutuwo	D. Eng.	Electric Machinery, Power Generation and Transformation Engineering
	(◎) HABUCHI, Hitoe	D. Eng.	Electromagnetics I, Electric Circuit Engineering
	YAMADA, Hirobumi	D. Eng.	Programming and its Seminar, Numerical Analysis
Associate Professor	IIDA, Tamio	D. Eng.	Electronics I, II, Electric Circuit I
	(※2) MIYAKE, Shoko	Ph. D.	Applied Mathematics B, Applied Physics II
	TAJIMA, Koji	D. Eng.	Computer Architecture, Software Engineering, Signal Processing
Lecture	SHIRAKI, Eiji	D. Eng.	Electric Circuit I, Communication Engineering, Electrical and Electronic Engineering Laboratories
	SHIBATA, Yoshihide	D. Eng.	Applied Mathematics A, Scientific and Technical English, Electrical and Electronic Engineering Laboratories
Assistant Professor	HORIUCHI, Sakie	D. Eng.	Computer Network, Operating Systems and Databases, Electrical and Computer Engineering Laboratories
Commissioned Professor	Kumar RAFUL	D. Eng.	Electrical Materials, Electrical and Computer Engineering Laboratories
	HAYAKAWA, Tomomichi	Ph. D.	Electrical and Computer Engineering Seminar I, Engineering Ethics

◎ Chairman of Department ※1 Director of Computer Center ※2 Director of International Affairs Office

Department of Electronic Control Engineering

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



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 1 2	Applied Mathematics 1 1	Applied Mathematics 2 2	Graduation Research 12
Workshop Practice 1 2	Electric Circuits 1 1	Applied Physics 1 2	Applied Mathematics 3 2	(Subtotal) 12
(Subtotal) 3	Basic Exercises in Electronic Control 1 1	Information Processing 2 2	Applied Mathematics 4 2	(Elective Subjects)
	Design and Drafting 2	Electromagnetics 1 2	Applied Physics 2 2	Applied Physics 3 2
	Workshop Practice 2 2	Electric Circuits 2 2	Electromagnetics 2 2	Information Processing 3 2
	(Subtotal) 8	Electronic Circuits 2 2	Measurement Engineering 2 2	Applied Computer Engineering 2 2
		Basic Exercises Electronic Control 2 1	Control Engineering 1 2	Applied Electric Engineering 2 2
		Kinematics of Machinery 1 2	Control Engineering 2 2	Applied Electronics Engineering 2 2
		Strength of Materials 1 2	Kinematics of Machinery 2 2	Control Engineering 3 2
		Engineering Experiments 1 4	Engineering Experiments 2 4	Strength of Materials 2 2
		(Subtotal) 20	Advanced Engineering Seminar 2 2	Robotics 2 2
			Fundamental Research of Electronic Control 4 4	Applied Machinery Engineering 2 2
			Engineering Ethics 1 1	Total of Credits 18
			(Subtotal) 29	Total of Necessary Credits on Elective Subjects 14 and more

Introduction to the Department of Electronic Control Engineering

In modern society, it is necessary to develop systems that can act as a substitute for human beings, not only in the field of simple mechanical work but also in the field of intellectual work that requires judgment. Humans first grasp a situation through sensory organs such as the eyes and ears and then use their brains to think and order their hands and feet to perform a variety of activities. Similar processes such as sensing (eyes and ears), recognition and judgment (brain), and control (hands and feet) are required when doing this with devices. It is an intelligent system that carries out all these processes autonomously without human intervention. The intelligent system is about to be realized in every field including but not limited to factory production facilities to automobiles, aircraft, electronic equipment, intelligent buildings, communication systems, medical equipment, biotechnology, and home electric appliances. This Department of Electronic Control Engineering comprehensively deals with basic technologies for developing systems that perform such intelligent operations. In addition to basic knowledge of electrical, electronic, and mechanical systems, students also learn cutting-edge theories such as specialized subjects related to measurement, control, information, and computers as well as robotics and system control engineering. We emphasize experiments and practical training and conduct thorough electronic control engineering experiments, robot control experiments, and information processing exercises.

Vision of Human resources to be Trained in the Department of Electronic Control Engineering and Learning and Educational Objectives

The Department of Electronic Control Engineering aims to foster engineers who can develop creative systems that can perform intelligent human movements by creating intelligent systems through electronic control and information control technologies, as well as by acquiring a wide range of basic skills, including computer-related competencies. Based on the philosophy outlined above, the Department of Electronic Control Engineering sets forth the following "Vision of human resources to be trained" and "Learning and educational objectives."

Vision of human resources to be trained

The Department of Electronic Control Engineering will develop human resources with (A) proactive learning ability that can challenge new technological fields as engineers by firmly acquiring (D) expertise in electrical, electronic, control, and machine-related fields, which are the basis of electronic control technology, (B) creative thinking skills that enable them to operate and construct electronic control systems, (C) the ability to respond with a global perspective and understanding of overseas culture and communicate using foreign languages in a globalizing society, specialized knowledge and technical ability in the electronic control field, and the ability to freely utilize computer and other information devices, (E) information and communication technology.

Learning and Educational Goals

<p>(A) Ability to learn independently</p> <p>① To acquire self-management skills, a sense of responsibility, cooperativeness, teamworking skills, and physical strength, which are required of engineers.</p> <p>② To acquire future-oriented career design skills that can flexibly respond in industrial and interdisciplinary fields to which electronic control engineering can be applied.</p>
<p>(B) Creative thinking skills</p> <p>① To be able to identify technical and/or new problems and to draft ideas and plans for solving problems flexibly while studying engineering fields related to electricity and electronics, information, control, and machinery.</p> <p>② To make use of basic knowledge of electricity and electronics, information, control, and machinery and to continue to carry out a plan.</p>
<p>(C) International responsiveness</p> <p>① In order to play an active role as a global engineer, students must acquire the ability to understand the historical background and culture of the international community and correctly grasp social and environmental issues by respecting the positions of others and other countries.</p> <p>② To be able to acquire the ability to fully understand Japanese, understand English and other foreign languages, and communicate in a global world.</p>
<p>(D) Expertise in the field of electronic control engineering</p> <p>① To acquire basic knowledge of mathematics and natural sciences and skills to analyze related problems.</p> <p>② To acquire basic knowledge and skills related to electronic control engineering based on electrical/electronic, control, information, and mechanical engineering.</p> <p>③ To acquire practical skills measurement, processing and examination of data obtained in experiments and practical sessions in the field of electronic control engineering.</p>
<p>(E) Information and communications technology</p> <p>① To be able to use information devices to acquire information and literacy skills such as information retrieval, data processing, data representation, and presentation.</p> <p>② To learn the programming and data analysis required in one's field of specialization using information devices and to acquire basic knowledge and practical skills to plan, build, analyze, and express concepts using information processing systems.</p>

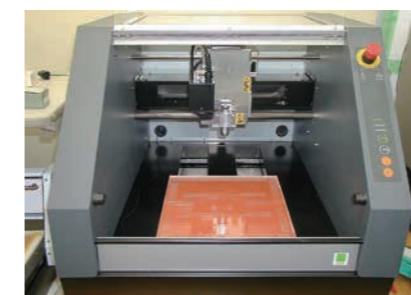


Advanced Engineering Experiments

Academic Staff

Title	Name	Degree	Subjects in Charge
Professor	MORIGUCHI, Hirofumi	D. Sci.	Applied Mathematics
	(○) KITAGAWA, Hideo	D. Eng.	Robotics
	(◎) FUKUNAGA, Tetsuya	D. Eng.	Electromagnetics, Computer Architecture
	ENDO, Noboru	D. Eng.	Systems Control, Information Processing
Associate	KOBAYASHI, Yoshimitsu	D. Eng.	Kinematics of Machinery, Engineering Experiments
	KOHNO, Takuya	D. Eng.	Applied Physics
	KURIYAMA, Yoshifumi	D. Eng.	Workshop Practice, Strength of Materials
Lecturer	AOKI, Yoshifumi	D. Eng.	Electric Circuits, Electric Power Devices
Assistant Professor	MATSUNAGA, Shinnosuke	D. Eng.	Engineering Experiments, Electronic Circuits
Assistant Professor	MATSUDA, Motoi	M. Eng.	Digital Measurement and Control
Commissioned Professor	FUJITA, Kazuhiko	D. Eng.	Electronic Devices, Digital Circuits

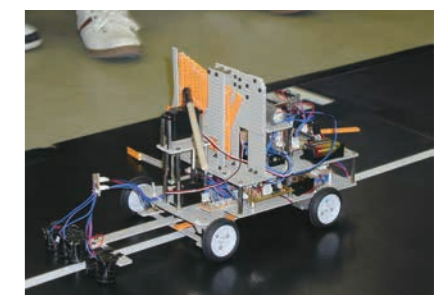
(○) Dean of Academic Affairs, (◎) Chairman of Department



Three-dimensional processing machine



Robot control with image processing



Lancer robot

Department of Civil Engineering

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



Introduction to the Department of Civil Engineering

In recent years, Japan has been hit by many disasters. In particular, the 2011 Great East Japan Earthquake off the Pacific coast of Tohoku had the largest magnitude in recorded history, and its accompanying tsunami caused tremendous damage. This reminded us that Japan is still vulnerable to natural disasters. People's livelihoods were destroyed by damage to roads and railways, and when rebuilding was initiated, engineers who had graduated from the Department of Civil Engineering responded to residents' expectations by restoring infrastructure with scant attention to eating and sleeping. Although twelve years have passed since the disaster struck, graduates continue to play an active role in rebuilding the area.

The Department of Civil Engineering will equip students with the ability to create and propose technologies related to "disaster prevention" to protect national land from natural disasters, as well as "social infrastructure development," to support comfortable, safe lifestyles and industries. In addition, the government will work on "creating a recycling-oriented city" that coexists and harmonizes with nature based on its intention to reduce negative environmental impacts.

Graduates primarily find employment in the following areas: roles which require planning for disaster prevention and social infrastructure development (national and local government officials, private companies related to energy, transportation and information) and roles that require designing, constructing and maintaining facilities related to disaster prevention and social infrastructure (design companies, construction companies). All of these are jobs where your skills contribute to a safe and comfortable life for residents. It can be said that this is the most suitable field among engineering for people with a strong public spirit and who feel a sense of joy in serving residents.

Human Resources to be Trained in the Department of Civil Engineering and Learning and Educational Objectives

Civil Engineering is a discipline for supporting safe and comfortable social activities and creating an environmentally friendly, sustainable society. Its main goal is "social infrastructure." Social infrastructure is a set of facilities that is closely related to our daily lives and social activities, such as roads and railways, ports and airports, water supply and sewage systems, and electricity and gas. At the same time, by making our social infrastructure resilient and ensuring careful use, we can also protect our land and human lives from natural disasters such as massive earthquakes and frequent weather disasters. Social infrastructure is essential; no matter how society changes, its importance is unchanged.

Technologies for social infrastructure development, in which Japan is a world leader, have greatly contributed not only to the development of Japan but also to that of the world. In the future, however, the reduction of environmental burdens will be a major challenge and there is a need to play a leading role in addressing this challenge as well. In order for humankind to achieve sustainable development, it is desirable to develop social infrastructures that coexist with nature and to train engineers who can materialize creative cities that are in harmony with local history and culture.

Based on the above, the Department of Civil Engineering pursues the following "Visions of human resources to be developed" and "Learning and educational objectives."

Vision of human resources to be trained

The Department of Civil Engineering trains practical engineers with creative thinking skills to understand the basic (D) expertise and concepts regarding the creation of a recycling-oriented city that harmonizes with nature and reduces negative environmental impacts, (C) (E)utilize information and communications technology to enhance social infrastructure development that supports the sustainable development of humankind from an international perspective, (A) actively promote ideas with independence, diversity, and collaboration, and (B) develop creative thinking skills.

Learning and Educational Objectives

<p>(A) Ability to learn independently</p> <p>① To acquire self-management skills, a sense of responsibility, teamwork ability, and physical strength, which are required of engineers.</p> <p>② To acquire future-oriented career design skills.</p>
<p>(B) Creative thinking skills</p> <p>① To understand new issues and practical problems and to plan for solving problems independently.</p> <p>② To continue executing a plan while making use of basic knowledge.</p>
<p>(C) International responsiveness</p> <p>① To utilize the knowledge of humanities and social sciences to grasp social and environmental issues from a global perspective.</p> <p>② To acquire communication skills in Japanese and one or more foreign languages.</p>
<p>(D) Specialized skills</p> <p>① To acquire basic knowledge and skills in specialized fields based on mathematics and natural sciences.</p> <p>② To acquire practical skills in measuring, processing, and considering data obtained through experimentation and practical training.</p>
<p>(E) Information and communications technology</p> <p>① To acquire information literacy.</p> <p>② To gather, utilize, and disseminate information required in specialized fields through the use of information equipment.</p>

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	10 and more



Surveying Exercise

Academic Staff

Title	Name	Degree	Subjects in Charge	
Professor	SUZUKI, Masato	D. Eng.	Planning Theory in Civil Engineering, Numerical Analysis	
	◎ (Chairman of Department)	MIZUNO, Kazunori	D. Eng.	Soil Mechanics, Geotechnical Engineering
	(Dean of Student Affairs)	SUMINO, Haruhiko	D. Eng.	Environmental Engineering, Fundamental Experiments
	MIZUNO, Yoshinori	D. Eng.	Structural Mechanics, Design and drawing	
Associate Professor	HIROSE, Yasuyuki	M. Eng.	Surveying, Disaster Prevention Engineering	
	WATANABE, Naohiko	D. Eng.	Applied Mathematics, Applied Physics	
	KIKU, Masami	D. Eng.	Hydraulics, Fundamental Experiments	
Lecturer	KAWABATA, Mitsuaki	D. Eng.	Urban Engineering, Urban and Traffic Planning	
	KITA Masato	D. Eng.	Hydraulics, River Basin Management	
Assistant Professor	IMUKAI Hyuga	D. Eng.	Concrete Engineering, Fundamental Experiments	
Commissioned Professor	YOSHIMURA, Yuji	D. Eng.	Soil Mechanics, Disaster Prevention Engineering	



Tsunami wave-making experiment



Exhibit



Lab work

Department of Architecture

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



Introduction to the Department of Architecture

Architecture is supposed to consist of the elements of "strength," "utility," and "beauty." In other words, it is important to be able to create something beautiful that can be used safely and comfortably. In addition, it is important that these elements are balanced.

Against the background of recent changes in the global environment and social conditions, architectural requirements are changing; it is important to build cities and regions that are not only resistant to earthquakes and other disasters but also capable of recovering to their original states (resilience) with measures for disaster prevention and mitigation. This includes recycling, energy conservation, and creative energy performance, as well as inheriting and making the most of architecture and landscapes as the history and culture of the region with the aim of effectively utilizing global resources and preventing global warming. In other words, there is a strong need to create sustainable housing and local communities.

The advent of the IoT era has also made it necessary to express space using virtual reality (VR), to respond to BIM using information technology from the planning and design of architecture to maintenance and management, and to promote digital infrastructure.

In addition to expertise in architecture, the Department of Architecture also focuses on practical education in reference to local problem solving, which plays a role as a knowledge base, and on exploring technologies that can contribute to the creation of sustainable local communities that are required in modern society. We also aim to train architectural engineers who have the ability to integrate related technologies and education, have the ability to solve problems for realizing a sustainable society and a carbon neutral society, and can contribute meaningfully to society.

Vision of Human Resources to be Trained in the Department of Architecture and Learning and Educational Objectives

The Department of Architecture will develop human resources who possess an understanding of the composition technique of architecture and urban spaces, specialized technology and information and communications technology related to environmental adjustment and structural safety, and the ability to integrate these with independence, diversity, and collaboration. In addition, students will be equipped with the ability to communicate internationally and creatively with the ability to think, judge, and express themselves in order to build spaces where human beings live their lives in society.

Based on the above, the Department of Architecture pursues the following "Vision of human resources to be trained" and "Learning and educational objectives."

Vision of human resources to be trained

Engineers who have basic skills and education related to the compositional techniques of architecture and urban space, environmental adjustment, and structural safety in order to construct spaces where human can lead social lives, and who can synthesize these skills.

Learning and Educational Objectives

<p>(A) Ability to learn independently</p> <p>① To acquire self-management skills, a sense of responsibility, teamwork ability, and physical strength, which are required of engineers.</p> <p>② To acquire future-oriented career design skills.</p>
<p>(B) Creative thinking skills</p> <p>① To understand new issues and practical problems and to plan for solving problems independently.</p> <p>② To carry out the plan continuously while making use of basic knowledge, etc.</p>
<p>(C) International responsiveness</p> <p>① To utilize knowledge of humanities and social sciences to grasp social and environmental issues from a global perspective.</p> <p>② To acquire communication skills in Japanese and one or more foreign languages.</p>
<p>(D) Specialized skills</p> <p>① To acquire basic knowledge and abilities in specialized fields based on mathematics and natural sciences.</p> <p>② To acquire practical skills in measuring, processing, and considering data obtained through experimentation and practical training.</p>
<p>(E) Information and communications technology</p> <p>① To acquire information literacy.</p> <p>② To gather, utilize, and disseminate information required in specialized fields through the use of information equipment.</p>

Curriculum of Department of Architecture

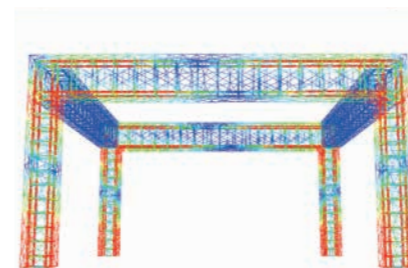
1st	2nd	3rd	4th	5th
<Required Subjects>	<Required Subjects>	<Required Subjects>	<Required Subjects>	<Required Subjects>
Introduction to Architecture 1	Construction Methods II 1	Applied Physics I 2	Applied Mathematics A 1	Reinforced Concrete Structure II 2
Construction Methods I 1	Introduction to Spatial Design 1	Digital Design I 1	Applied Mathematics B 1	Steel Structure II 2
Architectural Drawing I 2	Introduction to Interior Design 1	Digital Design II 1	Applied Physics II 1	Environment Design 2
(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 2
		Interior Design 1	Interior Planning and Design 2	Graduation Research 8
		Architectural Planning I 2	History of Architecture II 1	(Subtotal) 22
		Environmental Society 1	Architectural Planning II 2	<Elective Subjects>
		Fundamentals for Environment Engineering 1	Urban and Regional Planning 1	Soil Mechanics and Foundation Engineering 2
		Planning and Design I 4	Exercise in Architecture 1	Structural Design 2
		Experiment of Environment 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
			Engineering Ethics of Architecture 1	Planning and Design III 2
			(Subtotal) 26	Building Equipment Practice 2
				Building Materials II 2
				Architectural Planning Practice 2
				Total of Credits 18
				Total of Necessary Credits on Elective Subjects 7 and more



Observation of the building during construction

Academic Staff

Title	Name	Degree	Subjects in Charge
Professor	INUKAI, Toshitsugu	D.Eng.	Building Materials, Structural Mechanics
	TSURUTA, Yoshiko	D.Eng.	Urban and Regional Planning, Planning and Design
	OGAWA, Nobuyuki	D.Eng.	Applied Physics, Statistical Mechanics
	(Dean of Reserch Affairs) SHIBATA, Ryouichi	D.Eng.	Structural Experiment, Structural Design
	© (Chairman of Department) AOKI, Tetsu	D.Eng.	Environmental Engineering, Architectual Equipment
Associate Professor	IMADA, Taichiro	M.Eng.	Planning & Design, Digital Design
	SAKURAGI, Koshi	D.Eng.	Planning & Design, Architectual Design
	ISHIKAWA, Ayumi	D.Eng.	Environmental Engineering, Environmental Experiment
Lecturer	YAMAMOTO, Shogo	D.Eng.	Reinforced Concrete Structure, Wooden Structure
Assistant Professor	WADA, Fuki	Ph.D.	History of Architecture. Planning & Design



Numerical Experimentation of RC Structure



Experiment of Architectural Environment



Interior Design

Advanced Course

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



Introduction to Advanced Courses

The advanced courses are based on the regular, five-year course to train practical technicians via two years of advanced technical education. The goal is to cultivate technical skills that can respond to the needs for original R&D and planning and design with an eye on environmental conservation by acquiring a wide range of technical knowledge and deep creative thinking skills. The course also aims to cultivate a rich humanity by providing intense education. Accordingly, the "Advanced Integrated Development Major" is offered at our institution.

Advanced Integrated Development Major

The Advanced Integrated Development Major is built on a broad foundation encompassing mechanical engineering, electrical information engineering, electronic control engineering, environmental urban engineering, and architecture. The curriculum is designed to enable students to take advantage of their studies in a wide range of fields and to deal with the various problems in those boundary fields. We aim to develop engineers who can contribute to global sustainable development based on creative thinking to develop manufacturing through problem-solving methods that combine technologies from different fields. In addition, the Advanced Integrated Technology Collaboration Education Program with Toyohashi University of Technology aims to foster cross-cutting practical engineers who can play an active role in local communities after graduation, while making effective use of the diverse educational resources that the advanced courses at the college and Toyohashi University of Technology offer.

Vision of Human Resources to be Trained in the Advanced Courses and Learning and Educational Objectives

In order for humankind to develop sustainably on planet Earth, it is essential to take into consideration how to prevent the depletion of various limited natural resources related to production and how to prevent the proliferation of various substances that affect our ecosystems. For this reason, the future of "manufacturing," while supporting human labor and intellectual activities and providing an artificial environment for leading a more comfortable social life, gives serious consideration to the conservation of finite global resources and the construction of a recycling-oriented society. The major aims are to foster creative thinking ability to conceive, design, produce, and produce "environmental systems" consisting of various "functions" necessary for social life and "things" (machinery, electricity and electronics, buildings, and social infrastructure), "space" (life, city, nature), "energy," "knowledge and information," and "control and management" of such "environmental systems" that realize such functions (machinery, electronics, buildings, and social infrastructure), taking into account the need for environmental conservation.

Based on the above, the advanced courses pursue the following "Vision of human resources to be trained" and "Learning and educational objectives."

Vision of human resources to be trained

Advanced Integrated Development Major

The advanced course of interdisciplinary technology development will (D) work to further deepen specialized fields and develop human resources with the ability to contribute to the sustainable development of the world through (A) creative thinking and flexible (C) international response capabilities and (E) information and communications technology with (B) creative thinking and expressiveness such as independence, diversity, and collaboration, through problem-solving methods that combine mechanical engineering, electronics, information engineering, civil engineering, and architecture with an understanding of technical systems in different fields.

Learning and Educational Objectives

(A) Ability to learn independently

- To acquire self-management skills, a sense of responsibility, teamwork ability, and physical strength, which are required of engineers.
- To acquire future-oriented career design skills.

(B) Creative thinking skills

- To understand new issues and practical problems and to plan for solving problems independently.
- To carry out the plan continuously while making use of basic knowledge, etc.

(C) International responsiveness

- To utilize knowledge of humanities and social sciences to grasp social and environmental issues from a global perspective.
- To acquire communication skills in Japanese and one or more foreign languages.

(D) Specialized skills

- To acquire basic knowledge and abilities in specialized fields based on mathematics and natural sciences.
- To acquire practical skills in measuring, processing, and considering data obtained through experimentation and practical training.

(E) Information and communications technology

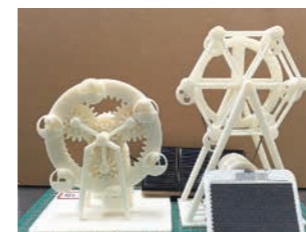
- To acquire information literacy.
- To gather, utilize, and disseminate information required in specialized fields through the use of information equipment.

Curriculum

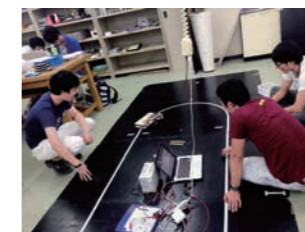
Advanced Course for Interdisciplinary Technology Development

1st					
General Subjects		Specialized-Foundation Subjects		Specialized-Advanced Subjects	
〈Required Subjects〉		〈Elective Subject〉		〈Required Subjects〉	
Advanced English 1	2	Life Science	2	Advanced Experiment	4
Advanced English 2	2	Digital measurement and control	2	Practical Training 1	2
(Total of Credits on Required Subjects)	4	Applied Physics	2	Graduation Thesis 1	6
〈Elective Subject〉		International Practical Training 1		(Total of Credits on Required Subjects)	
Introduction to Advanced Mathematics	2	Computational Mechanics	2	〈Elective Subjects〉	
(Total of Credits on Elective Subjects)	2	Quantum Mechanics	2	Medical and Welfare Engineering	2
		Advanced Topics in Applied Mathematics	2	Aerospace Engineering	2
		Corporate Management Introduction	2	Architectural Renovation Design Methodology	2
		Science Literacy Education Practice	2	Advanced Sustainable Society	2
		(Total of Credits on Elective Subjects)	17	Environmental Material Science	2
				Diffusion Phenomena	2
				Circuit Theory	2
				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)	2.3

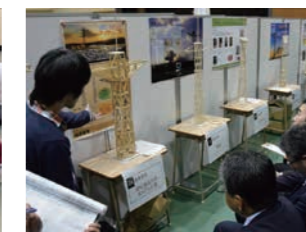
2nd					
General Subjects		Specialized-Foundation Subjects		Specialized-Advanced Subjects	
〈Required Subjects〉		〈Required Subjects〉		〈Required Subjects〉	
Social Ethics	2	Creative Engineering Practice	2	Graduation Thesis 2	8
(Total of Credits on Required Subjects)	2	(Total of Credits on Required Subjects)	2	(Total of Credits on Required Subjects)	8
〈Elective Subject〉		〈Elective Subject〉		〈Elective Subject〉	
Literature	2	Material Chemistry	2	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)	13	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)	2.2



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
Book Hunting
Leaders Workshop



Robot Contest



Study Tour

June

Mid-Semester Examination

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



Freshmen School Orientation



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

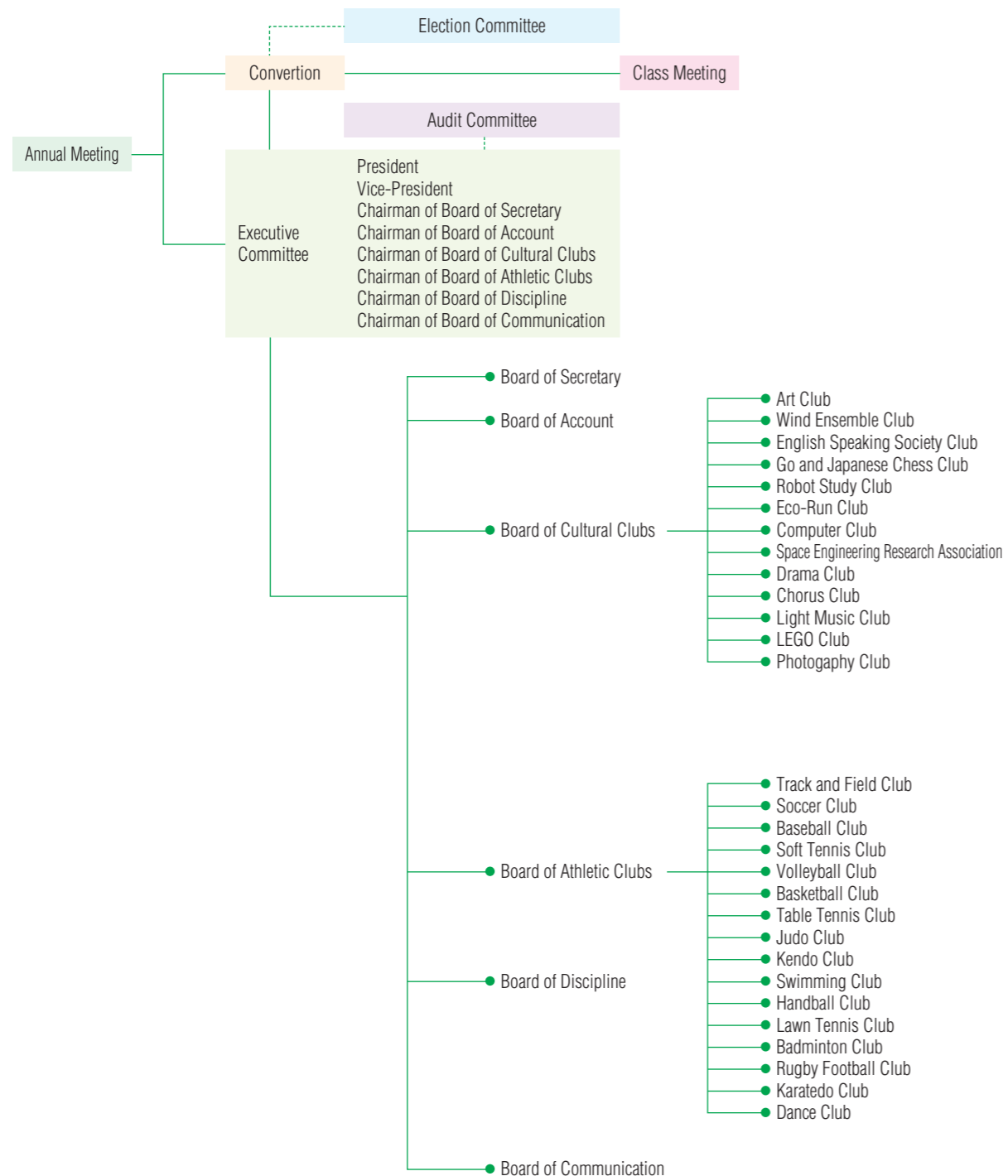
March

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 2023, 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 event without any knowledge on engineering subjects.



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 89 foreign students in total sponsored by either Japanese or Malaysian government, or Mongolia government. Currently, five international students from Laos, Cambodia are enrolled. (as of April 1st, 2024)



Skiing school in winter for the foreign students

Enrolled foreign students by country (1991~2024)

Country	Departments※	M	E	D	C	A	Total
Malaysia		17	5	16	6	2	46
Laos		0	6	0	0	1	7
Vietnam		0	3	0	0	1	4
Mongolia		2	0	1	2	3	8
Indonesia		1	2	2	0	0	5
Sri Lanka		0	1	1	1	0	3
Cambodia		1	1	0	0	4	6
Other Countries ※		1	2	3	0	4	10
Total		22	20	23	9	15	89

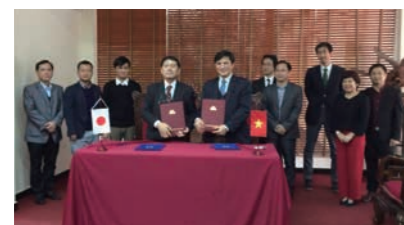
※ M : Department of Mechanical Engineering, C : Department of Civil Engineering, E : Department of Electrical and Computer Engineering, A : Department of Architecture, D : Department of Electronic Control Engineering

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 signed comprehensive exchange agreements with foreign universities; first, Institut Teknologi Bandung (ITB), Indonesia, in November, 2011. We continue to sign a series of agreements with university in various countries. As shown in the table on the right, we currently have agreements with 14 universities.

Comprehensive Exchange Agreements (as of April, 2024)

Country	Institutions	Date signed
Indonesia	Institut Teknologi Bandung	Nov. 3, 2011
Malaysia	Universiti Teknologi Malaysia	Jul. 30, 2012
U.S.A.	University of Iowa	Apr. 12, 2013
Uzbekistan	Turin Polytechnic University in Tashkent	Jun. 25, 2014
France	Institut Universitaire de Technologie Lille A	Feb. 2, 2016
Vietnam	Hanoi Architectural University	Jan. 16, 2017
"	Mien Trung University of Civil Engineering	Jan. 16, 2017
France	Universite d'Artois	Sep. 27, 2017
Malaysia	Universiti Tun Hussein Onn Malaysia	Feb. 25, 2018
Thailand	RAJAMANGALA UNIVERSITY OF TECHNOLOGY THANYABURI	Oct. 8, 2020
Singapore	REPUBLIC POLYTECHNIC	Jan. 26, 2023
Uzbekistan	Kimyo International University in Tashkent	Jun. 7, 2023
Vietnam	Electric Power University	Aug. 8, 2023
"	Hue Industrial College	Aug.10, 2023



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



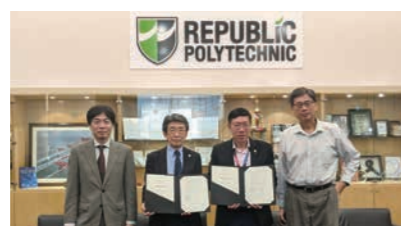
With Rector Prof. Pham Van Quan at Hue Industrial College



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 Senior Director Dr. Ashley Chua at Singapore Republic Polytechnic



With Rector Prof. Janpolat Kudaybergenov at Kimyo International 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 below. 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 2018	2019	2020 2021	2022	2023
TYK Ltd.	Dispatched	30	2	Not implemented	0	0
Institut Teknologi Bandung	Dispatched	18	2		0	0
	Accepted	13	2		0	0
Universiti Teknologi Malaysia	Dispatched	16	2		2	5
	Accepted	19	1		3	0
University of Hannover	Dispatched	10	2		0	0
	Accepted	13	3		0	0
University of Iowa	Dispatched	11	2		0	0
	Accepted	12	2		0	0
TTPU, Turin Polytechnic University in Tashkent	Dispatched	6	0		0	0
	Accepted	11	2		0	0
Institut Universitaire de Technologie Lille A	Dispatched	0	0		2	5
	Accepted	4	2		0	2
Hanoi Architectural University	Dispatched	0	0		0	1
	Accepted	5	2		0	0
Mien Trung University of Civil Engineering	Dispatched	0	0		0	2
	Accepted	2	2		0	0
Republic polytechnic	Dispatched	0	0		2	7
	Accepted	8	4		4	3
Thammasat University	Dispatched	0	1		0	0
	Accepted	1	1	0	0	
Universiti Tun Hussein Onn Malaysia	Dispatched	—	2	0	0	
	Accepted	—	3	0	0	
Rajamangala University of Technology	Dispatched	—	—	—	3	
	Accepted	—	—	—	0	



University of Hannover University of Iowa



(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 conducts a unique program for future-oriented human resource development held at Seattle USA every summer. Around thirty students can participate in this program and stay 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. During this program held in 2019, the students were challenged with diverse 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 students 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	https://www.gifu-nct.ac.jp/cooperative/
Industry-Academia-Government Collaboration Advisors	https://www.gifu-nct.ac.jp/research/adviser.pdf
Instrumental analysis room	https://www.gifu-nct.ac.jp/techno/analysis/top.html
On Campus Lectures	https://www.gifu-nct.ac.jp/about/extension_lecture/
Industry-Academia-Government Collaboration and Research Seeds Collection	https://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 Industry-Government- Academic Exchange Council Technology Symposium 2025	February 5, 2025

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	3 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	Let's design the robot to follow a line.	Electronic Control Engineering	6/15(Sat)	JHS students	2,500JPY per Robot
②	Cloisonn Shippoyaki Art Class	Tech Office	8/6(Tue)	JHS students (5th and 6th graders are also welcomed)	free
③	Urban Engineering -Creating a Map-	Environmental and Urban Engineering	8/7(Wed)	JHS students (4th, 5th and 6th graders are also welcomed)	free
④	Introduction to Electronics and Programming Course	Electrical Information Engineering	①8/10(Sat) ②8/11(Sun)	JHS students (5th and 6th graders are also welcomed)	free
⑤	Kinokuni Robot Competition for Elementary School Students	Mechanical Engineering	①8/11(Sun) ②10/13(Sun)	ES students	free
⑥	Kinokuni Robot Competition for Junior High School Students	Mechanical Engineering	①8/11(Sun) ②10/13(Sun)	JHS students	free
⑦	Interior Design-Planning Your Dream House	Architecture	8/24(Sat)	JHS students and their parents, JHS teachers	free
⑧	Design Your Custom Keyboard: Build and Personalize with a Microcomputer.	Tech Office	9/1(Sun)	JHS students (5th and 6th graders are also welcomed)	free

• 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 2023, 6 themes (6 classes) were implemented.

Table. Title of Delivery Class implemented in fiscal 2023

Thinking about disaster prevention in the community (Let's protect ourselves from the Tokai Earthquake)
Let's try to build moving robots with blocks
Let's try to use GPS
Color Psychology and Architecture
Let's design your own house plan.
Let's play with making a simple linear motor.

Library

The library provides users with various kind of information for the purposes of education and research, mainly consisting of approximately 100,000 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.

In March 2023, "Kotonoha Terrace" opened in the library's front garden. A new security gate allows direct access from the library to the terrace. The library hosts seasonal events such as Book Hunting, exhibitions, and several contests including Book Reports, Essays, 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 web page

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




Library from Kotonoha terrace



Reading Room



Book Hunting

Collection of Books

(2024.4.1)

Classification	Japanese	Foreign	Total
General	3,266	219	3,485
Philosophy	3,105	192	3,297
History	5,989	133	6,122
Social Science	7,925	201	8,126
Natural Science	16,288	3,326	19,614
Technology	28,439	2,375	30,814
Industry	1,302	31	1,333
Arts	4,273	159	4,432
Language	4,034	2,216	6,250
Literature	13,665	2,399	16,064
Total	88,286	11,251	99,537

Kinds of Periodicals

Japanese	Foreign	Total
55	2	57

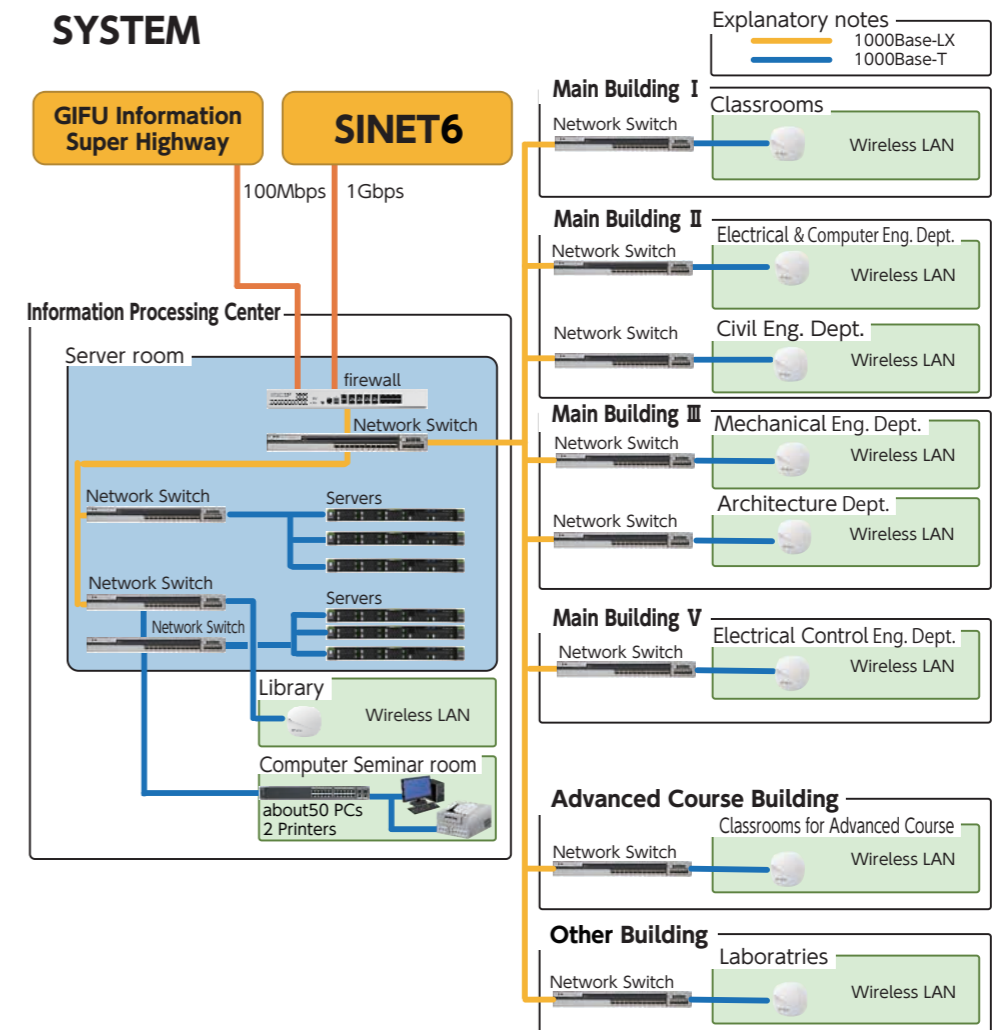
Audio-Visual Materials

DVD	362
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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. 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.



Scene of a class in the information exercise room



Information exercise room 2

Dormitory

The dormitory named "Yushiryo" is located within the college grounds, several minutes' walk to the main buildings of the college. It consists of eight boarding houses with furnished rooms, five for boys (Dormitory A, C, D, E and G-East) and three for girls (Dormitory B, F and G-West). It accommodates up to 373 students. Every year, about 60 new students are permitted to live in the dormitory. Dormitory G (both West and East) is a mixed dormitory of Japanese and international students and its first floor is for short-time 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 boarding fee is 700 yen for double-occupancy rooms or 800 yen for single rooms (single-room fee for single occupancy in a double-occupancy room). In addition, the following costs are required: food cost (40,500 yen a month), utility costs, common expenses, etc. (total 109,200 yen a year), air conditioner lease fees and electricity expenses (total 39,600 yen a year). (Utility costs, common expenses, etc. will be revised.)

However, please keep in mind that the recent sharp rise in prices may lead to a significant increase in the expenses.

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
Dormitory E	2	6	12
Dormitory F	2	16	38
	1	6	
Dormitory G-WEST	1	34	34
Dormitory G-EAST	1	34	34
Total		310	373

Current Number of Boarders

(As of May 1, 2024)

Grade Course	1st	2nd	3rd	4th	5st	Total
	Mechanical Eng.	21(5)	13	9	9(3)	9(1) ((1))[1]
Electrical and Computer Eng.	12(3)	14(4)	9(2)	10(1) [1]	9	54(10) [1]
Electronic Eng.	22(4)	12(2)	16(1)	8(2) ((1))[1]	4	62(9) ((1))[1]
Civil Eng.	15(6)	11(1)	8(2)	9(2)	5(1)	48(12)
Architecture	14(10)	8(5)	12(10)	12(5)	8(3) [1]	54(33) [1]
Total	84(28)	58(12)	54(15)	48(13) ((1))[2]	35(5) ((1))[2]	279(73) ((2))[4]
Advanced Course for Interdisciplinary Technology Development	1	0				1
Total	1	0				1

Noets : () Female Students,
 ([]) Foreign Female Students (number included),
 [] Foreign Students (number included)



Dormitory



Dormitory Festival

Techno Center

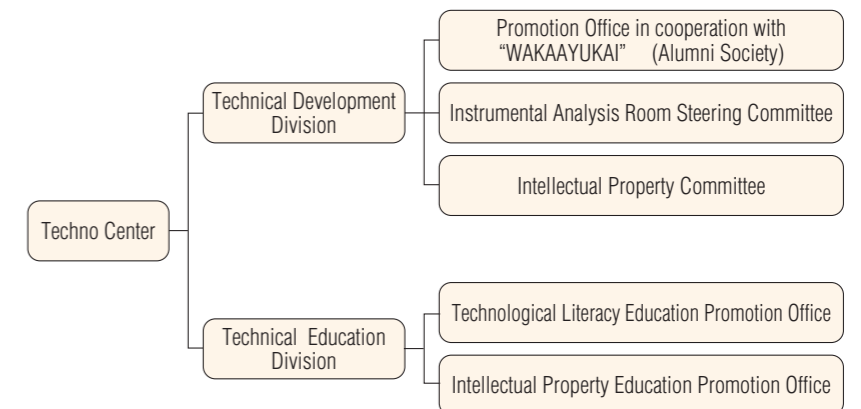
Techno Center is an institution for all departments in the college. It provides with machine tools and produces devices for manufacturing education, research activities and club activities. For instance, designing and producing works for graduation research or for the NHK Robot Contest are conducted 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
<https://www.gifu-nct.ac.jp//research/>



Table. Major equipments installed

Equipment	Number
lathe	12
milling machine	7
shearing machine	1
electric furnace	2
CNC turning center	2
CNC milling machine	2
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



Science Fair



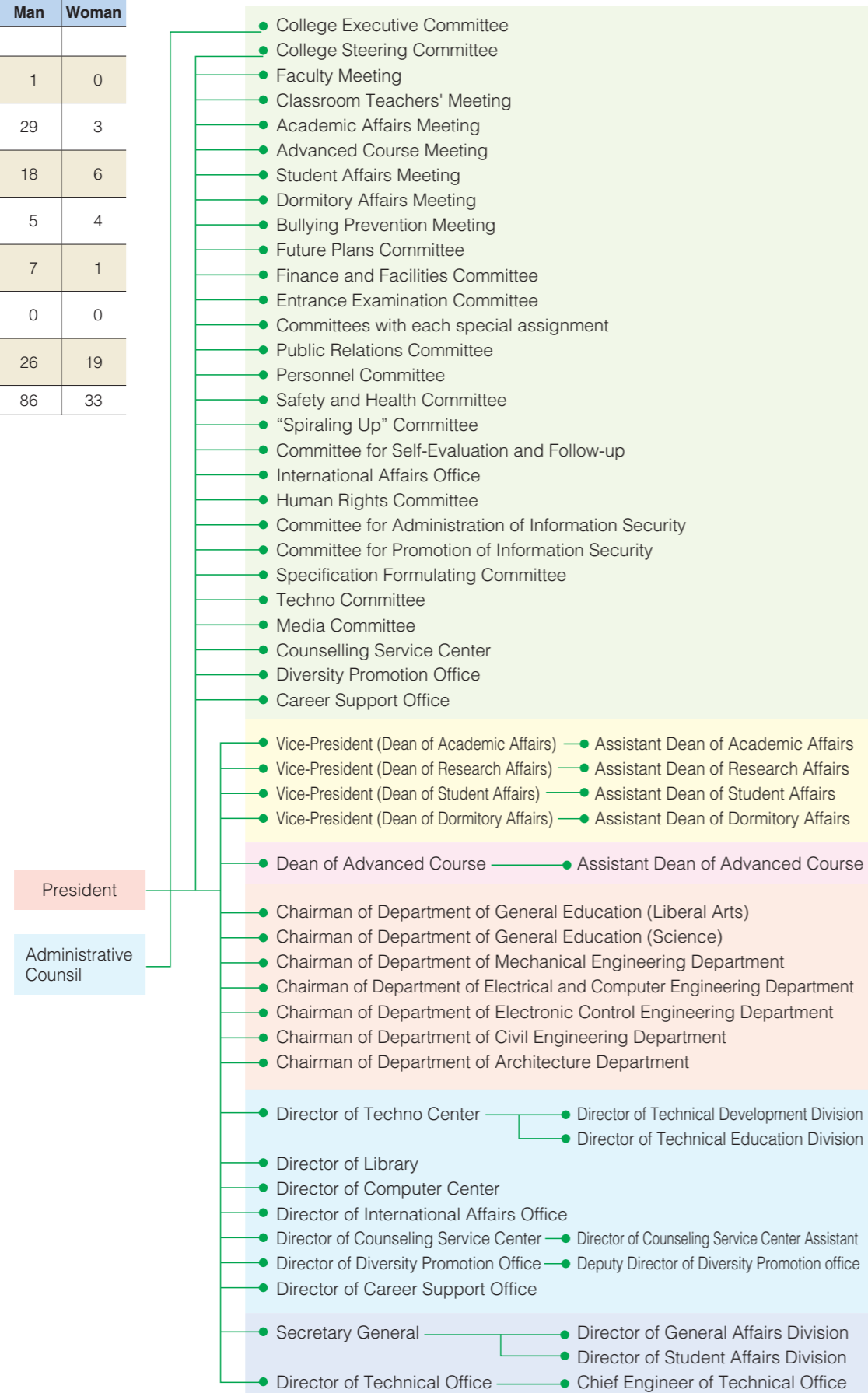
Science and Technology Fair

Organization

Present Staff As of April 1, 2024

Classification	Present	Man	Woman
Teaching Staff			
President	1	1	0
Professor	32	29	3
Associate Professor	24	18	6
Lecturer	9	5	4
Assistant Professor	8	7	1
Research Assistant	0	0	0
Officials	45	26	19
Total	119	86	33

Chart of Organization



Executives

Title	Name
President	ITSUNO, Shinichi
Vice-President (Dean of Academic Affairs)	KITAGAWA, Hideo
Vice-President (Dean of Research Affairs)	SHIBATA, Ryoichi
Vice-President (Dean of Student Affairs)	SUMINO, Haruhiko
Vice-President (Dean of Dormitory Affairs)	KAN, Nahomi
Dean of Advanced Engineering Faculty	KATAMINE, Eiji
Assistant Dean of Advanced Engineering Faculty	TSURUTA, Yoshiko
Chairman of Department of General Education (Liberal Arts)	KUBOTA, Keiji
Chairman of Department of General Education (Science)	YAMAMOTO, Hiroki
Chairman of Department of Mechanical Engineering	ISHIMARU, Kazuhiro
Chairman of Department of Electrical and Computer Engineering	HABUCHI, Hitoe
Chairman of Department of Electronic Control Engineering	FUKUNAGA, Tetsuya

Title	Name
Chairman of Department of Civil Engineering	MIZUNO, Kazunori
Chairman of Department of Architecture	AOKI, Tetsu
Director of Techno Center	YAMADA, Minoru
Director of Technical Office	HAMURO, Hideki
Director of Technical Development Division	YAMADA, Minoru
Director of Technical Education Division	HIROSE, Yasuyuki
Director of Library	NAKAJIMA, Yasutaka
Director of Computer Center	YASUDA, Makoto
Director of International Affairs Office	TAJIMA, Koji
Director of Counseling Service Center	NONOMURA, Sakiko
Director of Diversity Promotion Office	KITAGAWA, Hideo

Administrative Staff

Title	Name
Secretary General	HAMURO, Hideki
General Affairs Section Manager	SUDO, Jyunichi
Director of Student Affairs Division	MATSUURA, Katsuyuki

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

Health Service Staff

Title	Name
Physician	HORIBE, Ren
Physician	HIROSE, Reiko
Physician	AMANO, Yuhei
Dentist	TAKEUCHI, Mikio

Title	Name
Pharmacist	TAKADA, Hirotaka
Counselor	ISHIHARA, Miyuki
Counselor	SASANO, Aina
Counselor	NODA, Hiromi
Specially appointed professor	HASHIMOTO, Osamu

Students

Admission Capacity and Current Number of students

(As of Apr 1, 2024)

Departments	Capacity of Admission	1st	2nd	3rd	4th	5th	Total
Mechanical Eng.	40	42 (9)	43 (5)	45 (3)	41 (5)	38 (5) ①	209 (27) ①
Electrical and Computer Eng.	40	42 (12)	42 (9)	45 (4)	42 (5) ①	40 (4)	211 (34) ①
Electronic Control Eng.	40	44 (8)	45 (5)	45 (7) ①	40 (5) ①①	37 (3)	211 (28) ①②
Civil Eng.	40	43 (18)	44 (12)	40 (11)	44 (16)	41 (15)	212 (72)
Architecture	40	41 (20)	40 (19)	44 (27) ①	41 (20)	39 (20) ①	205 (106) ①①
Total	200	212 (67)	214 (50)	219 (52) ②	208 (51) ②①	195 (47) ②	1048 (267) ④③
Advanced Course for Interdisciplinary Technology Development	20	34 (8)	43 (9)				77 (17)
Total	20	34 (8)	43 (9)				77 (17)

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

Current Number of Overseas Students

(As of Apr 1, 2024)

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

() Female Students

Japan Student Services Organization Scholarship

(2023)

Departments	1st	2nd	3rd	4th	5th	Total
Mechanical Eng.	0	0	0	5	3	8
Electrical and Computer Eng.	0	0	0	2	3	5
Electronic Control Eng.	0	0	1	5	3	9
Civil Eng.	0	0	3	4	3	10
Architecture	0	0	1	3	2	6
Total	0	0	5	19	14	38
Advanced Course for Interdisciplinary Technology Development	3	4				7
Total	3	4				7

()Female Students

Students

Number of Students by Home Prefecture

(As of May 1, 2023)

Departments	Grade	Gifu	Aichi	Shiga	Other	Total
Mechanical Eng.	1st	36(4)	4(1)	2		42(5)
	2nd	36(1)	6(1)		1	43(2)
	3rd	36(5)	6(1)		1	43(6)
	4th	36(4)	2	1	1(1)	40(5)
	5th	34(2)	8		1	43(2)
Electrical and Computer Eng.	1st	33(6)	7(2)	1	1(1)	42(9)
	2nd	36(1)	8(2)	1(1)		45(4)
	3rd	32(5)	5	2(1)	2	41(6)
	4th	39(3)	3(1)			42(4)
	5th	29(7)	9(3)	1		39(10)
Electronic Control Eng.	1st	38(5)	2	3		43(5)
	2nd	34(7)	8	1		43(7)
	3rd	39(2)	3	1(1)	1(1)	44(4)
	4th	34(4)	4	1		39(4)
	5th	37(2)	6	2(1)		45(3)
Civil Eng.	1st	38(11)	2	1(1)		41(12)
	2nd	33(10)	8(1)		2	43(11)
	3rd	33(10)	8(4)	1		42(14)
	4th	35(13)	6(4)	1	2(1)	44(18)
	5th	33(15)	6(2)			39(17)
Architecture	1st	39(18)		1(1)	1(1)	41(20)
	2nd	35(21)	4(4)		2(1)	41(26)
	3rd	35(14)	5(4)		4(4)	44(22)
	4th	35(17)	2(1)	1(1)	2(1)	40(20)
	5th	31(16)	4(3)		3(2)	38(21)
Total		876(203)	126(34)	21(7)	24(13)	1047(257)
	(%)	83.7	12.0	2.0	2.3	100.0

() Female Students

Number of Students by Home College

(As of May 1, 2023)

Departments	Grade	NIT(KOSEN), Gifu College	NIT(KOSEN), Gunma College	Total
Advanced Course for Interdisciplinary Technology Development	1st	39(9)		39(9)
	2nd	37(4)		37(4)
Total		76(13)		76(13)

() Female Students
NIT=National Institute of Technology.

Number of Applicants and Applicants/Enrollees Ratio

Departments	Capacity	2021		2022		2023		2024	
		Applicants	Ratio	Applicants	Ratio	Applicants	Ratio	Applicants	Ratio
Mechanical Eng.	40	36(5) 2	0.9	53(2)	1.33	55(7)	1.38	50(9)	1.25
Electrical and Computer Eng.	40	73(11) 1	1.8	50(4)	1.25	67(10)	1.68	96(15)	2.40
Electronic Control Eng.	40	70(4) 1	1.8	50(6) 1	1.25	58(6)	1.45	76(12) 3	1.90
Civil Eng.	40	51(15)	1.3	57(11)	1.43	48(14)	1.20	66(25)	1.65
Architecture	40	74(34) 3(1)	1.9	81(40)	2.03	56(23)	1.40	86(38)	2.15
Total	200	304(69) 7(1)	1.5	291(63) 1	1.46	284(60) 1	1.42	374(99) 3	1.87

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

Number of Applicants and Enrollees transferring into 4th Grade

Departments	2021		2022		2023		2024	
	Applicants	Enrollees	Applicants	Enrollees	Applicants	Enrollees	Applicants	Enrollees
Mechanical Eng.								
Electrical and Computer Eng.								
Electronic Control Eng.								
Civil Eng.							0	0
Architecture					1	0	0	0
Total					1	0	0	0

() Female Students

Number of Applicants and Enrollees into Advanced Course

Departments	2021		2022		2023		2024	
	Applicants	Enrollees	Applicants	Enrollees	Applicants	Enrollees	Applicants	Enrollees
Advanced Course for Interdisciplinary Technology Development	59(14)	40(9)	89(11)	35(4)	98(15)	39(9)	70(12)	34(8)
Total	59(14)	40(9)	89(11)	35(4)	98(15)	39(9)	70(12)	34(8)

() Female Students

Future Course of Graduates

Year	Departments	Number of Graduates	Employed	Advanced to Universities	Other
2020	Mechanical Eng.	37(4)	16(1)	20(3)	1
	Electrical and Computer Eng.	35(4)	15(2)	19(2)	1
	Electronic Control Eng.	37(2)	19(1)	17(1)	1
	Civil Eng.	44(15)	38(12)	6(3)	
	Architecture	40(25)	24(14)	15(11)	1
	Total	193(50)	112(30)	77(20)	4
2021	Mechanical Eng.	41(3)	19(2)	21(1)	1
	Electrical and Computer Eng.	43(5)	21(2)	22(3)	
	Electronic Control Eng.	39(1)	16(1)	22	1
	Civil Eng.	41(12)	34(8)	6(4)	1
	Architecture	37(15)	22(13)	15(2)	
	Total	201(36)	112(26)	86(10)	3
2022	Mechanical Eng.	39(1)	14	25(1)	0
	Electrical and Computer Eng.	38(3)	16(3)	20	2
	Electronic Control Eng.	36(2)	13(2)	22	1
	Civil Eng.	40(12)	28(10)	12(2)	0
	Architecture	44(28)	29(19)	14(9)	1
	Total	197(46)	100(34)	93(12)	4
2023	Mechanical Eng.	42(2)	22(1)	20(1)	0
	Electrical and Computer Eng.	39(10)	17(5)	20(5)	2
	Electronic Control Eng.	45(3)	21(2)	24(1)	0
	Civil Eng.	39(17)	28(13)	11(4)	0
	Architecture	38(21)	28(17)	10(4)	0
	Total	203(53)	116(38)	85(15)	2

() Female Students

Graduates' Entrance into Advanced Course and Universities

University	Year	2021	2022	2023	2024
Hokkaido Univ.		2	1	2	1
Tohoku Univ.					
Akita Univ.			1		
Univ. of Tsukuba			2	1	1
Gunma Univ.					
Chiba Univ.	1		3	3	1
Tokyo Univ.					
Tokyo Institute of Technology					
The University of Electro-Communications	1		2		1
Tokyo Univ. of Foreign Studies				1	
Tokyo Univ. of Agriculture and Insitute	2				
Yokohama National Univ.	1			1	1
Nagaoka Univ. of Technology	4			8	3
Niigata Univ.	1		1		
Toyama Univ.			1	1	1
Kanazawa Univ.	2		4	4	1
Fukui Univ.			3		
Univ. of Yamanashi					
Shinshu Univ.					
Gifu Univ.		5	17	10	8
Shizuoka Univ		1			2
Toyohashi Univ. of Technology		5	5	6	10
Nagoya Univ.		3	3	3	2
Nagoya Institute of Technology		3	1	1	4
Mie Univ.		2	1	2	1
Kyoto Institute of Technology					
Osaka Univ.		1		2	2
Kobe Univ.			1	2	1
Nara Women Univ.		1			1
Okayama Univ.				1	1
Hiroshima Univ.					
Yamaguchi Univ.					
Kagawa Univ.		1			
Kyushu Institute of Technology					1
Kyushu Univ.			3	2	3
Kumamoto Univ.		1			
Kagoshima Univ.		1	1		
Ryukyus Univ.					
Tokyo Metropolitan Univ.				1	2
Toyama Prefectural Univ.				1	
Tokyo City Univ.			1		1
Kogakuin Univ.				1	
Waseda Univ.					1
Doshisha Univ.			1		
Ritsumeikan Univ.				1	1
Kinki Univ.					1
NIT(KOSEN), Gifu College		39	35	39	34
HAL Nagoya College			1		2
Human Academy			1		
Total		77	89	93	87

Future Course of Graduates

Number of the Advanced Course Graduates who entered Graduate Schools

Graduate school	Year	2021	2022	2023	2024
Tohoku Univ.(Graduate School)					1
Univ. of Tsukuba (Graduate School)		2	2	3	1
Tokyo Univ. (Graduate School)				1	
Nagaoka Univ. of Technology (Graduate School)			2	1	
Japan Advanced Institute of Science and Technology			4	1	
Gifu Univ. (Graduate School)					
Toyohashi Univ. of Technology (Graduate School)			2	1	1
Nagoya Univ. (Graduate School)	1		1	1	1
Nagoya Institute of Technonology (Graduate School)	1			1	2
Osaka Univ. (Graduate School)	1		1		
Nara Institute of Science and Technology	1		1	2	2
Kyushu Univ. (Graduate School)				2	
Kumamoto Univ.(Graduate School)				1	
Tokyo Univ. of Science(Graduate School)	1				
Waseda Univ.(Graduate School)				1	
計		7	13	15	8

() 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	
2021	Mechanical Eng.	19(2)	666	35.1	2	17(2)	18(2)			1
	Electrical and Computer Eng.	21(2)	589	28	2	19(2)	21(2)			
	Electronic Control Eng.	16(1)	600	37.5	2	14(1)	16(1)			
	Civil Eng.	34(8)	323	9.5	4(1)	30(7)	18(4)	16(4)		
	Architecture	22(13)	463	21	5(4)	17(9)	21(12)	1(1)		
	Total	112(26)	2641	23.6	15(5)	97(21)	94(21)	17(5)		1
2022	Mechanical Eng.	14	668	47.7	5	9	14	0	0	0
	Electrical and Computer Eng.	16(3)	677	42.3	0	16(3)	15(2)	1(1)	0	0
	Electronic Control Eng.	13(2)	647	49.8	2	11(2)	11(2)	2	0	0
	Civil Eng.	28(10)	483	17.3	7	21(10)	15(5)	13(5)	0	0
	Architecture	29(19)	507	17.5	4(3)	25(16)	28(18)	0	1(1)	
	Total	100(34)	2982	29.8	18(3)	82(31)	83(27)	16(6)	1(1)	
2023	Mechanical Eng.	22(1)	746	33.9	3	19(1)	22(1)	0	0	0
	Electrical and Computer Eng.	17(5)	739	43.5	0	17(5)	17(5)	0	0	0
	Electronic Control Eng.	21(2)	721	34.3	2	19(2)	21(2)	0	0	0
	Civil Eng.	28(13)	491	17.5	5(2)	23(11)	13(7)	15(6)	0	0
	Architecture	28(17)	517	18.5	0	28(17)	28(17)	0	0	0
	Total	116(38)	3214	27.7	10(2)	106(36)	101(32)	15(6)	0	0

() 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
2021	Advanced Course for Interdisciplinary Technology Development (Mechanical・Electrical Information・Electronic Control)	24	13	11	0	578	44.5	0	13	13		
	Advanced Course for Interdisciplinary Technology Development (Environmental and Urban・Architecture)	12(3)	10(3)	2	0	300	30	5(2)	5(1)	5(3)	5	
	Total	36(3)	23(3)	13	0		38.2	5(2)	18(1)			
2022	Advanced Course for Interdisciplinary Technology Development (Mechanical・Electrical Information・Electronic Control)	27(2)	13(2)	13	1	602	1	12(2)	13(2)	0	0	
	Advanced Course for Interdisciplinary Technology Development (Environmental and Urban・Architecture)	12(7)	10(5)	2(2)	0	446	1(1)	9(4)	8(5)	2	0	
	Total	39(9)	23(7)	15(2)	1	1048	2(1)	21(6)	21(7)	2	0	
2023	Advanced Course for Interdisciplinary Technology Development (Mechanical・Electrical Information・Electronic Control)	18	13	5	0	655	50.4	1	12	13	0	0
	Advanced Course for Interdisciplinary Technology Development (Environmental and Urban・Architecture)	15(4)	12(4)	3	0	473	39.4	1(1)	11(3)	8	4	0
	Total	33(4)	25(4)	8	0	1128	45.1	2(1)	23(3)	21	4	0

() Female Students

Finance

The figures in these data are rounded to the nearest number so the total may not match the breakdown in some cases.

Operating Costs such as Income and Expenditure Grant

(Unit: ¥1,000)

Revenue		Expenditure	
Grants for Operation Costs	56,283	166,959	Education and Research Expenses
Tuition Revenue	260,122	8,703	Support Education and Research Expenses
Admission Fee Income	20,727	18,259	General and Administrative Expenses
Testing Fee Income	6,633	156,181	Common Expenses
Miscellaneous Income	6,322		
Total	350,087	350,103	Total

Adoption Subsidy Situation etc.

(Unit: ¥1,000)

Classification	Year			
	2020	2021	2022	2023
Subsidy Budget for Construction of Facilities	992,425	464,588	272,030	1,582
Facility Budget by National Institution for Academic Degrees and Quality Enhancement of Higher Education	0	18,480	0	25,256
Grants-in-Aid for Equipment Maintenance	29,337	33,302	16,820	28,686
Human Resource Development Business for Nuclear Power Subsidy	991	265	2,702	380
Grants for Promoting University Reform	0	0	0	101,924
Subsidy for Maintenance and Development of Information and Telecommunications Network Facilities	39,065	0	0	0
Subsidy for Maintenance and Development of Information Equipment	18,750	0	0	0
Total	1,080,568	516,635	291,553	157,828

Grants-in-Aid for Scientific Research

(Unit: ¥1,000)

Classification	Year	2020		2021		2022		2023	
		Number	Funds	Number	Funds	Number	Funds	Number	Funds
Grant-in-Aid for Scientific Research (B)	0	0	0	0	0	0	0	0	0
Grant-in-Aid for Scientific Research (C)	17	13,200 3,960	15	14,400 4,320	14	11,600 3,480	17	10,500 3,150	
Grant-in-Aid for Exploratory Research	0	0	0	0	0	0	0	0	
Grant-in-Aid for Early-Career Scientists	6	5,100 1,530	6	3,021 906	6	5,070 1,515	6	4,550 1,365	
Grant-in-Aid for Young Scientists (A)	0	0	0	0	0	0	0	0	
Grant-in-Aid for Young Scientists (B)	0	0	0	0	0	0	0	0	
Encourage Research	0	0	0	0	0	430	1	480	
Grant-in-Aid for starting Scientific Research	1	1,900 570	1	300 90	1	1,100 330	1	1,100 330	
Grant-in-Aid for Publication of Scientific Research Results	0	0	0	0	1	0	0	0	
Total	24	20,200 6,060	22	17,721 5,316	22	18,200 5,325	25	16,630 4,845	

Direct expense (upper), Overhead expense (lower)

External Fundings

(Unit: ¥1,000)

Classification	Year	2020		2021		2022		2023	
		Number	Funds	Number	Funds	Number	Funds	Number	Funds
Research Funding Such as Industry academia Collaboration	Funded Research	2	1,710	2	1,999	4	2,205	5	8,626
	Funded Projects	1	2,470	2	3,713	1	801	0	0
	Contract Testing	0	0	0	0	0	0	0	0
	Joint Research	10	5,027	9	4,871	8	3,830	11	5,425
	Subtotal	13	9,207	13	8,586	13	6,836	16	14,051
Donations	27	7,111	35	20,101	45	20,019	33	18,197	
Other Subsidys	16	19,895	18	22,500	21	22,887	21	29,250	
Total	56	36,213	66	51,186	79	49,742	70	61,497	

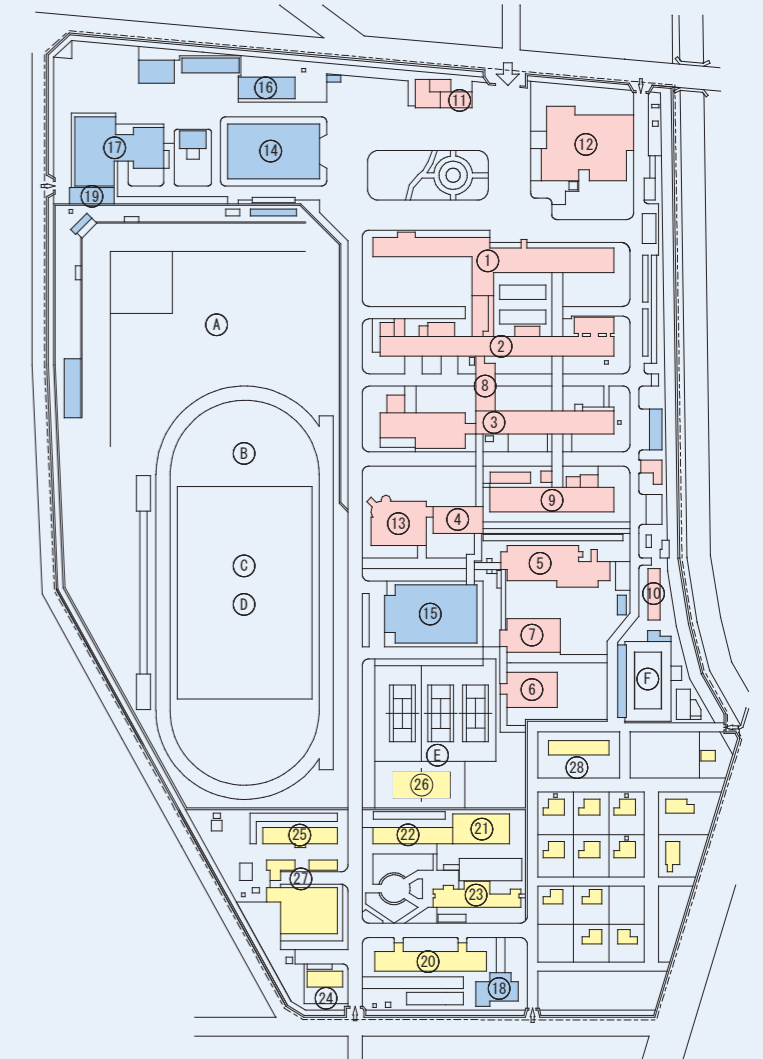
Land and Buildings

Lands

Classification	Area	Notes
School houses	50,975 m ²	Baseball Ground, Soccer Rugby Ground, 400-Meter Track, Tennis Court (3), Swimming Pool (25meters×6 courses), etc.
Grounds	36,435	
Dormitory	11,849	
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
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.		1,540
Subtotal		23,428
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
Administration Office & Dormitory E		303
Dormitory F		647
Global Dormitory		1,502
Dining Hall & Bath House etc.		854
Subtotal		7,578
Personnel Housing		1,448
Total		37,344



- 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 Administration Office & Dormitory E
- ㉕ Dormitory F
- ㉖ Global Dormitory
- ㉗ Dining Hall & Bath House etc.
- ㉘ Personnel Housing
- (A) Baseball Ground
- (B) 400-Meter Track
- (C) Soccer Ground
- (D) Rugby Ground
- (E) Tennis Court
- (F) Swimming Pool