College Prospectus 2026



有明工業高等専門学校

教育 EDUCATION

歴史と文化

日本一の出炭量を誇った日本の近代化の象徴

大牟田市は今から約1万年前に有明海が陸化し始めた頃から人が住んでいたと考えられています。

明治6年(1873年)、三池炭鉱は官営化され、鉄鉱の高島炭鉱と組み、潤沢な資金と最新の技術を導入して近代的な採炭が開始されました。明治22年(1889年)には三井に払い下げられ、鐘淵紡、官営紙、万田坑などの大きく発展されました。

昭和9年(1934年)には、三池港が開港し、石炭の積み出しが容易になったことで、三井三池炭鉱は日本一の出炭量を誇る炭鉱へと成長しました。

昭和38年(1963年)の三川坑ガス突出事故や、昭和40年代からのエネルギー転換の影響により、閉山の道を歩むことになりましたが、三池炭鉱は日本の近代化を支えた象徴的な存在として、現在も多くの人々に語り継がれています。

国指定文化財(史跡)　萩ノ尾古墳

西原村・菊池郡境一帯から有明海東一帯から多数の古墳が点在しており、特徴的なグローバル教育を推進しています。

グローバルエンジニアリング環境の構築のため、各校では海外の大学などからのアカデミックインターンシップや学生交流を受け入れています。高専生徒の中で実践などの海外留学とのインバウンドの導入、国際的な視野を広げ、誰でも積極的に参加出来るようにしています。

また、各校学生の海外インターンシップや学生交流などの海外派遣は、学生たちに新しい経験と学びを提供し、積極的な国際交流と学生の成長を促進したいです。

有明高専には、これらの特徴を最大限に活かし新しいプログラムを進んでとどこで、グローバル教育をより一層推進していきます。

大蛇山まつりと三池カルタ

大牟田市の代表的な文化として大蛇山まつりと三池カルタが挙げられます。

大蛇山まつりは、江戸時代から続く伝統的な祭りで、高さ十五メートル超えの巨大な大蛇が登場します。勇猛な様子を表す多くの担ぎ手たちと、観客の熱気が一体となって盛り上がる大迫力のイベントです。

三池カルタは、大牟田市を代表する伝統的なかるた遊びで、百枚の札と読み札で構成されています。江戸時代初期から四百年以上もの歴史を持ち、地元の子どもたちから大人まで楽しめる遊びとして親しまれています。

ラムサール条約に登録された「荒尾干潟」

荒尾干潟は、熊本県荒尾市にある干潟で、有明海に面し、約214ヘクタールの広さを誇ります。多様な干潟と生物が生息する貴重な海洋として、国際的にも重要な湿地であるラムサール条約に登録されています。

干潟には、ムツゴロウやトビハゼなどの絶滅危惧種も多く生息しており、ガンガゼ類などの棘皮動物が豊富に見られます。グローバルエンジニア養成プログラム」の実習が行われた。

また、ガンガゼなどの棘皮動物は、古くから食用としても利用されており、その中には国内産業も含まれています。

荒尾干潟は、自然保護団体などの協力も受けながら、地域住民のラムサールへの関心を高める啓発活動が行われています。学校観察会やネット体験など、学術と教育の場としても重要な役割を果たしています。学生観察会やネット体験など、学術と教育の場としても重要な役割を果たしています。

約400年の歴史を知る!「小代焼」

小代焼は、熊本県荒尾市周辺で約400年の歴史を持つ伝統的な陶磁器です。その始まりは、豊臣秀吉による文禄・慶長の役の際に、朝鮮から連れ帰った陶工たちによって技術が伝えられたことにあります。陶工の李朝家具氏は、現在の荒尾市小代地区に窯を築き、地元の土や釉薬を使って焼き物を作り始めました。

小代焼の最大の特徴は、その素朴で温かみのある風合いです。鉄分を多く含む土を使用し、灰釉や飴釉などを施すことで、深みのある色合いが生まれます。また、一つ一つ手作りで作られるため、同じものは二つとありません。

有明高専のグローバル教育

「グローバルに活躍できる技術者」の育成に向けて

有明高専では、学生が国際社会での活躍できる技術者への育成を目指し、積極的にグローバル教育を推進しています。

グローバルエンジニアリング環境の構築のため、各校では海外の大学などからのアカデミックインターンシップや学生交流を受け入れています。高専生徒の中で実践などの海外留学とのインバウンドの導入、国際的な視野を広げ、誰でも積極的に参加出来るようにしています。

また、各校学生の海外インターンシップや学生交流などの海外派遣は、学生たちに新しい経験と学びを提供し、積極的な国際交流と学生の成長を促進したいです。

有明高専には、これらの特徴を最大限に活かし新しいプログラムを進んでとどこで、グローバル教育をより一層推進していきます。

グローバルエンジニア育成事業

低学年次からグローバルエンジニアとしての基礎力を養う

令和元年度より、国立高等専門学校機構が推進するグローバルエンジニア育成事業の高専学校学生等支援プログラムにおいて、本校が「有明国際エンジニアリングカレッジ」として支援学校次点のグローバルエンジニア養成プログラムに採択されました。

本プログラムは、どのような環境においても、英語をコミュニケーションツールとして活躍的・自発的に行動できるグローバルエンジニア能力を育成する事を目標としています。

具体的な取り組み

1) 英語力

・有明人課題による各授業を通じ多様な学生と英語でコミュニケーション授業の実施

・英文表現の書き方など基礎的授業力の強化

・Achievement教育の適切な達成とそのつながりとそれぞれ英語学習可能な環境の構築

・各学年における TOEIC Bridge テストの実施による英語力測定

2) 異文化交流力

・3年次全員参加のシンガポール研修の実施(予定)

・SDGs理解可能な環境整備やマインドを育てるイベントの実施

・海外からの受入学生との交流機会の増加

3) 工学知識

・有明人課題による各授業による基礎的理工系科目授業の実施

・上級生とおりの海外大学・企業へのインターンシップ応募の奨大

4) 自律的行動力と社会性

・学生向け危機管理やコンプライアンスの実施

・責任ある行動ができる社会人となるための基本を学ぶ実践生活

これらの取り組みを通じて、学生がグローバルエンジニアとしての必要な基礎力を身につけ、国際社会で活躍できる人材へと成長することを目標としています。

有明高専から海外への学生派遣数

年度	中国交流	インドネシア	学生交流	シンガポール研修(2024年度から)	海外研修	合計
2020(平成2)	29	12	14	5	0	60
2021(平成3)	10	13	5	2	0	31
2022(平成4)	45	19	12	2	0	80
2023(令和5)	7	8	9	1	0	30
2024(令和6)	0	1	3	***(2024年度から)	0	4
2025(令和7)	0	0	0	***(2024年度から)	0	1
2026(令和8)	14	0	15	2	0	31
2027(令和9)	25	1	5	2	111	145

海外から有明高専への学生受入数

年度	留学生数	インターンシップ	合計
2018(平成30)	10	4	14
2019(平成31)	10	4	14
2020(平成2)	8	5	13
2021(令和3)	8	4	12
2022(令和4)	6	2	8
2023(令和5)	6	3	9
2024(令和6)	8	3	11
2025(令和7)	10	4	14

高専生活の4つのポイント

1. 充実した課外活動

建築部、文化部合わせて20以上の部活動があり、勉強とクラブ活動を両立させ、充実した学生生活を送ることができます。

2. 自主的な行事

高専祭や体育祭など、学生が自ら企画・運営する行事が多数あり、リーダーシップや協調性を養い、人間的な成長を促します。

3. 多彩なコンテストへの挑戦

ロボコンをはじめ、プログラミングコンテストからビジネスコンテストに挑戦することができます。これらの活動を通じて、技術的な知識やスキルを磨き、問題解決能力を高めることができます。

4. 人間的な豊かさを養う

専門的な知識や技術を習得するだけでなく、協調性、コミュニケーション能力、リーダーシップなど、社会で必要とされるための必要な人間性を養うことができます。

有明高専は、学生一人ひとりが主体的に学び、成長できる環境を提供しています。 自分の将来の夢の為のキャンパス有明高専で充実した学園生活をしてください。

課外活動について

学生が自分の興味・関心を広げ、仲間と一緒に楽しむことができる課外活動が盛んです。

体育館、武道場、400mトラック、野球場、テニスコートなどの施設も整っています。

有明高専に入学後の夢や目標について、自由な発想を見据えましょう!

体育系

硬式野球部	陸上競技部
ソフトテニス部	ハンドボール部
卓球部	弓道部
剣道部	柔道部
ラグビー部	水泳部
サッカー部	バドミントン部
バレーボール部	
バスケットボール部	
空手部	
硬式部	

文化系

写真部	ロボット研究部
天文部	自動車工学研究部
吹奏楽部	ボランティア部
ウォーキング同好会	ダンス部同好会
美術研究部	模型愛好会
機械研究部	ソーサーカート愛好会
管弦楽部	工芸愛好会
コンピュータ研究部	将棋愛好会
茶道部	生物愛好会
華道部	

学生寮(悠明寮)

経済的な負担の軽減地域との絆を深めるため、国際交流支援での積極的な寮のリーダーである寮/寮内寮を置く、有明寮と隣接する第2寮は下宮で開設されました(2024年)。

"自分の健全な成長"を実現して"自寮/紅寮/緑寮"と名付けられたタンの学寮の紹介のための学生が寮活動を行いました。教育的な寮のもとに健康正しい集団生活のやマナーと通常寮生寄ってけるから、豊かな人間性を養う教育の楽しく、夢を持ち続ける。

また、寮生が自治的に各々の目標の中で、さまざまな交流のある寮を等利行事を続けるか、各国の楽しさの元かく開催と協働の開催を楽しんでいます。

生活 KOSEN LIFE

National Institute of Technology (KOSEN)

Ariake College



School Precepts

[Shinshu-Sozo]

Shinshu-sozo is to pursue the goal of creating practical engineers who can cope appropriately with changes in technology and society by acquiring new values of competence, individual self-development, and ambitious spirit.

[Washin-Yoso]

Washin-yoso is to pursue the goal of being practical engineers withcultured minds through keeping the focus on learning voluntarily,acquiring skills of industrial infrastructures, extending individualityand your ability.

[Yuai-Kyocho]

Yuai-kyocho is to pursue the goal of fostering practical engineers who can respect the diversity of individuals and society, also mutually support each other. Another goal of Yuai-kyocho is to produce human resources with great cooperative skills and to transmit their thoughts freely in the academic field.



Monument of School Precepts

Erected March 6, 2014,
commemorating the 50th anniversary

College Song

Lyrics by 竜　英二／Music by 下川　博省

1．見はるかす　山脈晴れて
いのち澄む　丘のさみどり
みよここに建学の　理想も高く
聳えたつ　われらが母校
若き眉　真理めざして
誇りあり　われら有明高専

2．流れ寄る　諏訪川清く
たゆみなき　琢磨ささやく
ああここに工業の　技術磨きて
炬と燃ゆる　進取の気魄
若き胸　友愛あつく
抱負あり　われら有明高専

3．不知火の　海はかがやき
雲仙に　あがる青雲
いざここに大いなる　明日を夢みて
鍛えなん　雄飛の力
若き腕　世紀にかざし
栄えあり　われら有明高専

Origin of College Emblem



The college name is crowned with Ariake in the Ariake Sea. The college emblem derives its origin from Shiranui in the Ariake Sea, mysterious sea fire, seen from the top of the mountain of Yotsuyama on the evening of the lunar New Year's Eve. The letters of 有明 (Ariake) are designed to signify the fire of Shiranui and arranged separately on both sides of the letters of 高専 (Kosen). It symbolizes both a passionate fire for truth and the future development of the college.

Logo Mark

The logo consists of four letters NiT and A which should be read, National Institute of Technology, Ariake College. The lowercase letter "i" is intended to create an association with "innovation," "inspiration," and "intelligence," all of which are suited to the educational goals of our college.

The colors represent important aspects of our college. Crimson for "A" is adopted because it is the school color and the shape of the "A" makes us think of the sun setting over the Ariake Sea. Green for "i" represents nature and the college surroundings. And lastly, blue for "N" and "T" represents the Ariake Sea.

Table of Contents

Overview

Message from the President — 1
Introduction — 1
History — 2
Emeritus Professors — 4
Organization — 4
Educational Principle — 6
Educational Goals — 7

Introduction to Departments and Courses

Department of Creative Engineering — 8
Division of Environmental and Energy Engineering — 12
Curriculum (Energy Course) — 14
Curriculum (Applied Chemistry Course) — 15
Curriculum (Life and Environmental Science Course) — 16
Division of Human and Welfare Engineering — 17
Curriculum (Mechanics Course) — 20
Curriculum (Information System Course) — 21
Curriculum (Architecture Course) — 22
Department of General Education — 23
Curriculum (General Education) — 25

Introduction to the Advanced Engineering Course

Advanced Engineering Course — 26
Curriculum (Advanced Engineering Course) — 30
Production System Engineering Program — 32

Centers and Offices

Information and Network Center, Regional Collaboration Center — 33
Circuit Design and Education Center — 33
Global Education Center — 34
Student Support Center — 34
Administrative and Support Offices — 35

Facilities, Naming Rights

Library — 36
General Research Building — 36
Entrepreneur Workshop — 36
Research and Development Building and Joint Research Building — 37
Shuko-Kan (Students' Hall) — 37
Dormitory — 37
Naming Rights — 38

Education, Research and Student Life

College Calendar — 39
Student Council — 39
Chart of Student Council — 39
The Principal Records of Athletic Meets in Colleges of Technology — 40
The Principal Records of Contests in Colleges of Technology — 40
Research — 42
Regional Interchange — 43

Data & Information

Situation of Finance, External Funds — 45
Students — 46
Admission Capacity and Present Number of Students — 46
Admission Capacity and Present Number of Students (Advanced Engineering Course) — 46
Number of Applicants and Competitive Ratio of Entrance Examination — 47
Places of Origin of New Students — 47
List of Collection Expenses — 47
Graduates — 48
Number of Graduates, Employment or Academic Position of Graduates — 48
Entrance into Universities — 48
Entrance into Graduate Schools — 49
List of Employment — 49
Facilities — 50
Details of College Buildings — 50
Campus Map — 51
Location, Contact Us — 52

Message from the President



President　OTSUKA Hirofumi

National Institute of Technology, Ariake College opened in 1963 as one of the second group of national colleges of technology, here in the Ariake region encompassing the cities of Omuta and Arao — an area once known as the "coal capital." Since then, the College has sent some 10,000 practical, advanced engineers out into the world. After establishing the Advanced Engineering Course — comprising the Advanced Production and Information Systems Engineering Course, the Advanced Chemical Science and Engineering Course, and the Advanced Architecture Course — in 2001, and transferring to the National Institute of Technology (KOSEN) in 2004, the College was reorganized in 2016 into a single Department of Creative Engineering with two divisions and six courses: the Division of Environmental and Energy Engineering, comprising the Energy Course, the Applied Chemistry Course, and the Life and Environmental Science Course; and the Division of Human and Welfare Engineering, comprising the Mechanics Course, the Information System Course, and the Architecture Course. This reorganization was carried out under our educational philosophy of "fostering practical, advanced engineers who are creative, diverse, interdisciplinary, and internationally minded, on the basis of a broad engineering foundation and a rich liberal arts education," and this structure remains in place today. The times have moved on from the era of rapid economic growth, and today we face a number of social challenges at once, among them energy, global warming, and a declining birthrate coupled with an aging population. Each of these is a complex, compound problem for which better solutions are difficult to find. The key to resolving them lies in the continued evolution of cutting-edge technologies that closely integrate virtual and physical space — data science, AI, IoT, and robotics — and in the development of the technologies that put them into practice. Achieving both economic development and the resolution of social issues on a foundation of innovation, and thereby realizing a sustainable, human-centered super-smart society (Society 5.0), depends above all on developing people who can take a broad view, consider matters from many angles to identify the essence of a problem, and marshal science and technology to create and sustain the society of the future. At Ariake KOSEN we are committed to socially implemented education and joint research through industry-government-academia collaboration centered on the Regional Collaboration Center, and to international education projects that cultivate an international outlook through partnerships with educational institutions overseas, centered on the Global Education Center. Through these efforts, we advance an education that develops people who possess not only practical skills, knowledge, and experience in their specialist fields but also broad culture and sound judgment, an interdisciplinary and international perspective, flexible thinking, and abundant creativity.

Introduction

Ariake Kosen (Kosen means national institute of technology) was founded by the national government in 1963. In 2016, its five departments (Mechanical Engineering, Electrical Engineering, Electronics and Information Engineering, Chemical Science and Engineering, and Architecture) were reorganized under a single heading—the Department of Creative Engineering. This department is further divided into two divisions, each of which contains three related courses of study. The Division of Environmental and Energy Engineering includes the Energy Course, Applied Chemistry Course, and Life and Environmental Science Course, while the Division of Human and Welfare Engineering includes the Mechanics Course, Information System Course, and Architecture Course. In the second semester of the second-year, the students are placed into one of the six courses. 200 students are admitted yearly into the Kosen. The five-year program thus contains about 1,000 students in total. Ariake Kosen has already sent 9,472 graduates out into various fields in industry. Almost all of them play a very important role in society.

The college incorporates both specialized and general education into a curriculum that encourages students to be the equal of university students in specialized knowledge and capacity, and trains them to be excellent practical engineers.

The Advanced Course, consisting of Advanced Production and Information Systems Engineering Course, Advanced Chemical Science and Engineering Course, and Advanced Architecture Course, was founded in 2001, and 689 students have graduated thus far. The Advanced Course is making further developments to educate highly skilled engineers.

The campus lies on a hill called Hagio-dai which is on the outskirts of Omuta City, Fukuoka Pref. and is about 5 km away from both Omuta Station and Arao Station. The dormitory is located in the north of Arao City, Kumamoto Pref. and it is a 5 minute walk to the campus.

The students are expected to develop their skills of cooperation, live an active and engaged life, and be creative. The program helps students lead a wholesome life in both mind and body. Kosen advises them to cultivate friendship, trust, and harmony through various extracurricular activities in addition to their formal instruction.

History

April 1, 1963	National Institute of Technology, Ariake College established with the Departments of Mechanical Engineering, Electrical Engineering, and Industrial Chemistry. USHIO, Hiroe, Dean of the Faculty of Engineering, Kumamoto University, appointed as the first President.
April 20	Opened at a temporary campus in Masunaga, Arao City.
October 23	Construction of the new campus began at the present site in Higashi-Hagio, Omuta City.
March 25, 1964	Dormitory (Wakaba House) completed.
March 31	Building for General Education and Administration Office Building completed.
March 17, 1965	Phase II construction completed (Electrical Engineering Building, Industrial Chemistry Building, Machine Shop, and Aoba House)
March 27, 1966	Phase III construction completed (Mechanical Engineering Building, Gymnasium, and Momiji House).
April 1	Administrative Bureau system introduced, with the General Affairs Division and the Accounting Division newly established.
October 11	Ceremony held to mark the completion of the campus buildings.
November 15, 1967	Kendo and Judo Hall completed.
April 1, 1968	Department of Architecture established.
September 1	HONDA, Toshio, former Dean of the Faculty of Engineering, Kumamoto University, appointed as the second President.
March 20, 1969	Architecture Building and Ginnan House completed.
April 1, 1970	Student Affairs Division newly established.
November 6	President HONDA, Toshio passed away. OHISHI, Toyojiro, Ministry of Education faculty member, appointed Acting President on the same date.
January 20, 1971	TODOROKI, Ichiro, former Dean of the Faculty of Engineering, Kumamoto University, appointed as the third President.
February 25, 1972	Library completed.
November 1, 1973	10th anniversary ceremony held.
March 30, 1974	Computer Room completed on the third floor of the Library.
March 9, 1976	Language Laboratory (L.L.) completed in the Building for General Education.
February 28, 1977	Integrated Training Center completed.
April 1, 1980	YOSHIMURA, Torazo, Professor of the Faculty of Engineering, Kyushu University, appointed as the fourth President.
March 17, 1981	Gymnasium No. 2 completed.
March 30, 1982	Environmental Development Education and Research Facility (now the Research and Development Building) completed.
March 11, 1983	Student Welfare Facility (Shuko-Kan) completed.
October 29	20th anniversary ceremony held.
April 1, 1986	TAKEMURA, Tetsuo, Professor of the Faculty of Engineering, Kyushu University, appointed as the fifth President.
April 1, 1989	Department of Electronics and Information Engineering established.
March 20, 1991	Electronics and Information Engineering Building completed.
April 2, 1992	TAKAMATSU, Yasuo, former Dean of the Faculty of Engineering, Kyushu University, appointed as the sixth President.
March 25, 1993	Women's Dormitory (Sakura House) completed.
November 6	30th anniversary ceremony held.
April 1, 1994	Department of Industrial Chemistry reorganized into the Department of Chemistry and Materials Engineering.
March 22, 1996	Biology Building of the Department of Chemistry and Materials Engineering completed.
April 2, 1997	YAMAFUJI, Kaoru, former Dean of the Faculty of Engineering, Kyushu University, appointed as the seventh President.
September 1	Regional Collaboration Promotion Center established.
April 1, 1999	Student Counseling Room established.
March 15, 2000	Building for General Education renovated; Joint Education Building and Building for Common Technical Course Education completed.
April 1, 2001	Advanced Engineering Course established, comprising the Advanced Production and Information Systems Engineering Course, the Advanced Chemical Science and Engineering Course, and the Advanced Architecture Course.
April 1	Center for Educational and Research Technical Support established.
September 25	Mechanical Engineering Building and Chemistry and Materials Engineering Building renovated.
November 30	Integrated Training Center renovated.
January 17, 2002	Regional Collaboration Center established.
April 1	OZAKI, Tatsuo, former Dean of the Faculty of Engineering, Kyushu University, appointed as the eighth President.
September 30	Electrical Engineering Building, Architecture Building, and Gymnasium No. 1 renovated; connecting corridor between the Building for General Education and the Architecture Building completed.
March 20, 2003	General Research Building completed.
April 19	Ceremony held to mark the 40th anniversary and the completion of the General Research Building.

April 1, 2004	Following the repeal of the National School Establishment Act and the enforcement of the Act on the National Institute of Technology (KOSEN), National Institute of Technology, Ariake College became a national college of technology established by KOSEN.
June 17, 2005	International exchange agreement concluded with Liaoning Petrochemical University, China.
January 12, 2006	Collaboration and exchange agreement concluded with Omuta Hospital.
April 1	Multimedia Center established.
July 1	Career Support Office established.
July 19	Yu-Yu Information Office established.
March 23, 2007	Cooperation agreement concluded with the Omuta City Board of Education.
April 1	With the shift to a two-division administrative structure, the General Affairs Division and the Accounting Division were reorganized into the General Affairs Division.
July 30	Aoba House renovated.
December 28	Library renovated.
March 24, 2008	Comprehensive cooperation agreement concluded with Omuta City.
April 2	TATEIBA, Mitsuo, former Dean of the Graduate School of Information Science and Electrical Engineering, Kyushu University, appointed as the ninth President.
March 9, 2011	Cooperation agreement concluded with the Arao City Board of Education.
March 14, 2013	Gender Equality Support Office established.
April 1	FUKUSHIMA, Takeo, former Executive Director of the National Institution for Academic Degrees and University Evaluation, appointed as the tenth President.
November 9	50th anniversary ceremony held.
December 19	School precepts established.
April 1, 2016	The five departments — Mechanical Engineering, Electrical Engineering, Electronics and Information Engineering, Chemistry and Materials Engineering, and Architecture — reorganized into the single Department of Creative Engineering.
	TAKAHASHI, Kaoru, former Director of the Research and Industry-Academia Collaboration Promotion Office of the National Institute of Technology (KOSEN), and Professor at NIT, Sendai College, appointed as the eleventh President.
April 1, 2017	The "Artificial Intelligence and Business Course (Kimura Information Technology)" opened through a donation from Kimura Information Technology Co., Ltd.
April 1, 2018	Student Support Center established.
	Center for Educational and Research Technical Support reorganized into the Technical Department.
November 3	A clock tower was donated and installed in front of the main gate to commemorate the 50th anniversary of the Yu-Yu Club alumni association.
April 1, 2019	EZAKI, Hisakazu, former Professor at NIT, Suzuka College, appointed as the twelfth President.
April 1, 2021	Public Relations Office (Entrance Examination) established.
March 4, 2022	Sakura House rebuilt.
April 1	YAGI, Masao, former President of NIT, Niihama College, appointed as the thirteenth President.
	Information Processing Center reorganized into the Information and Network Center.
	Institutional Research for Teaching and Learning Office and Library Management Office established.
March 6, 2023	Ginnan House renovated.
March 31	Dining hall of the Taimei Dormitory rebuilt.
	The multipurpose space in the dining hall of the Taimei Dormitory named “Arataba.”
April 1	Collaborative education program launched between the Faculty of Engineering, Kyushu University, and nine colleges of technology in the Kyushu-Okinawa region.
April 5	Shop in Shuko-Kan refurbished.
October 31	Cultural club rooms were donated by the Supporters' Association to commemorate the 60th anniversary.
November 16	Completion ceremony held for the cultural club rooms.
January 9, 2024	Entrepreneur Workshop opened.
March 13	Four cherry trees, together with the surrounding landscaping, were donated by the Yu-Yu Club alumni association to commemorate the 60th anniversary.
March 23	Tree-planting ceremony held to commemorate the 60th anniversary.
March 25	Aoba House and Momiji House consolidated and rebuilt as Momiji House.
March 26	Student Support Room installed in the student welfare facility.
April 1	Global Education Center established.
April 6	Ariake KOSEN Innovation Commons opened.
April 1, 2025	Circuit Design and Education Center established.
September 29	Opening ceremony and commemorative symposium held for the Circuit Design and Education Center.
April 1, 2026	OTSUKA, Hirofumi, former Special Assistant to the President and Professor at NIT, Kumamoto College, appointed as the fourteenth President.

Emeritus Professors

Date Granted	Name	Previous Position
Apr. 18, 1996	NAKAMURA, Yasutaka	Prof. General Education
Apr. 15, 2004	YOSHITAKE, Norimichi	Prof. Chemical Science and Engineering
Apr. 14, 2005	TAGUCHI, Koichi	Prof. Mechanical Engineering
Apr. 14, 2005	SETO, Hiroshi	Prof. General Education
Apr. 14, 2005	MIYAGAWA, Hideaki	Prof. Common Technical Courses
Apr. 19, 2007	SHINYA, Choichi	Prof. Architecture
Apr. 17, 2008	OZAKI, Tatsuo	The eighth President of Ariake Kosen
Apr. 17, 2008	YAMASHITA, Iwao	Prof. General Education
Apr. 17, 2008	NITAHARA, Hajime	Prof. General Education
Apr. 17, 2008	OHYAMA, Shiro	Prof. Mechanical Engineering
Apr. 15, 2010	KAWASAKI, Yoshinori	Prof. Mechanical Engineering
Apr. 19, 2012	ARAKI, Makoto	Prof. General Education
Apr. 19, 2012	NAKAMURA, Shunzaburo	Prof. Electronics and Information Engineering
Apr. 18, 2013	TATEIBA, Mitsuo	The ninth President of Ariake Kosen
Apr. 17, 2014	TSUKAMOTO, Kunishige	Prof. General Education
Apr. 16, 2015	KITAOKA,Toshiro	Prof. Architecture
Apr. 16, 2015	TOKUDA, Hitoshi	Prof. General Education
Apr. 21, 2016	FUKUSHIMA, Takeo	The tenth President of Ariake Kosen
Apr. 21, 2016	NAGAMORI, Tomomi	Prof. Electrical Engineering

Date Granted	Name	Previous Position
Apr. 21, 2016	HIMURO, Shozo	Prof. Chemical Science and Engineering
Apr. 21, 2016	MIYAMOTO, Nobuaki	Prof. Chemical Science and Engineering
Apr. 20, 2017	KAWASE, Ryoichi	Prof. Creative Engineering
Apr. 19, 2018	TSUKAMOTO, Shunsuke	Prof. Creative Engineering
Apr. 19, 2018	YOSHIDA, Masamichi	Prof. Creative Engineering
Apr. 19, 2018	UEHARA, Shuichi	Prof. Creative Engineering
Apr. 19, 2018	YAKIYAMA, Hiroshi	Prof. General Education
Apr. 18, 2019	TAKAHASHI, Kaoru	The eleventh President of Ariake Kosen
Apr. 18, 2019	UCHIUMI, Michihiro	Prof. Creative Engineering
Jul. 16, 2020	IZUMI, Katsuhiro	Prof. Creative Engineering
Jul. 15, 2021	NAKASHIMA, Yosuke	Prof. General Education
Jul. 21, 2022	INOUE, Hitoshi	Prof. General Education
Sep. 15, 2022	EZAKI, Hisakazu	The Twelfth President of Ariake Kosen
Jul. 18, 2024	MINAMI, Akihiro	Prof. Creative Engineering
Jul. 18, 2024	MATSUOKA, Takahiro	Prof. Creative Engineering
Jul. 17, 2025	SUGANUMA, Akira	Prof. Creative Engineering
Jul. 17, 2025	YAMAGUCHI, Eiichi	Prof. General Education
Jul. 17, 2025	MURAOKA, Yoshinori	Prof. General Education

Organization

Fixed and Present Number of Staff

Classification	Educational Personnel						Administrative and Technical Staff	Grand Total
	President	Professor	Associate Professor	Lecturer	Assistant Professor	Total		
Fixed Number	1	37	36	0	0	74	46	120
Present Number	1	34(1)	17 (2)	7 (2)	9 (3)	68 (8)	46 (14)	114 (22)

As of May 1, 2026 ( ) shows number of female staff

Teachers' Ages

Age	20's	30's	40's	50's	60's	Total
Number	1(0)	9 (2)	22 (2)	28 (3)	7 (1)	67 (8)
Rate	1.49%	13.43%	32.83%	41.79%	10.44%	100%

As of May 1, 2026 ( ) shows number of female staff

Executive Directors

Educational Personnel

President Chief of Risk Management Office	OTSUKA, Hirofumi
Dean of Academic Affairs (Vice-President)	KONO, Susumu
Dean of Students Affairs (Vice-President) Director of Student Support Center	MATSUO, Akihiro
Dean of Dormitory Affairs (Vice-President)	KATO, Manabu
Vice-President for Planning and General Affairs Chief of Planning and Public Relations Office	TANAKA, Yasunori
Vice-President for Research and Collaboration Director of Regional Collaboration Center	OKOBIRA, Tadashi
Vice-President for Global Education Chief of Global Education Center	TAKEUCHI, Norio
Dean of Advanced Engineering Course	HARA, Takeshi
Head of Creative Engineering	KONO, Susumu
Head of Environmental and Energy Engineering	ENOMOTO, Naoya
Head of Energy Course	ISHIMARU, Satoshi
Head of Applied Chemistry Course	ENOMOTO, Naoya
Head of Life and Environmental Science Course	ENOMOTO, Naoya
Head of Human and Welfare Engineering	TSUBONE, Hiroaki
Head of Mechanics Course	TSUBONE, Hiroaki
Head of Information System Course	MATSUNO, Yoshinobu
Head of Architecture Course	SHIMODA, Seiya
Head of General Education	MURATA, Kazuho
Section Head of Liberal Arts	MURATA, Kazuho
Section Head of Science and Mathematics	SAKAI, Takeshi
Director of Information and Network Center	MATSUNO, Yoshinobu
Director of Circuit Design and Education Center	ISHIKAWA, Yohei
Chief of Institutional Research of Teaching and Learning Office	TANAKA, Yasunori
Chief of Public Relations Office (Entrance Examination)	IWASHITA, Tsutomu
Chief of Library Management	MURATA, Kazuho
Chief of Harassment Counseling Office	TANAKA, Yasunori
Chief of Gender Equality Office	KATO, Naoko
Chief of Yu-Yu Information Office	TAZUNEKI, Shin-ichi

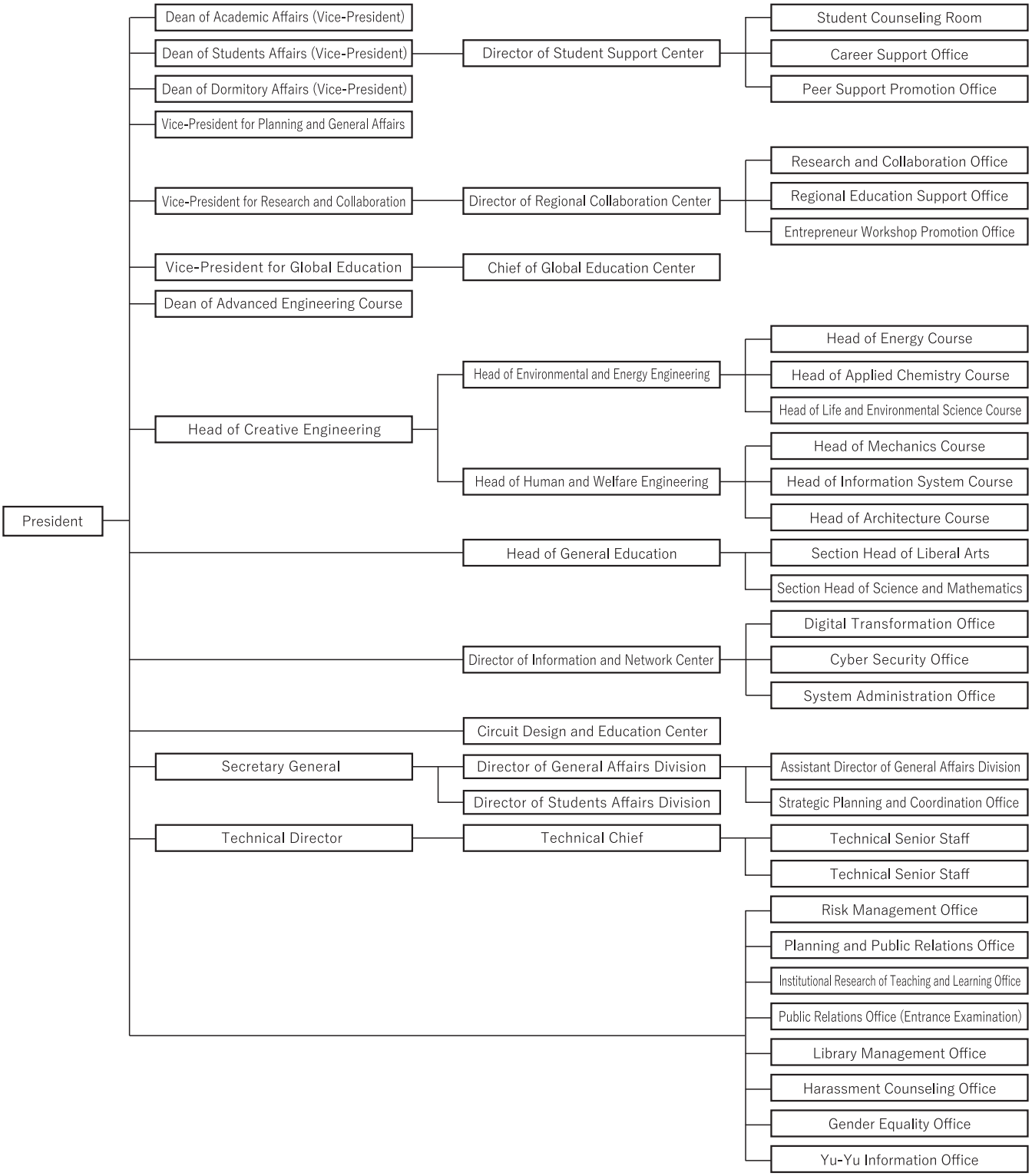
Administrative Staff

Secretary General	MASUDA, Toru
Director of General Affairs Division	KUNIMUNE, Hisashi
Director of Students Affairs Division	ETO, Naoyuki
Assistant Director of General Affairs Division	HIRASAKA, Toshikatsu

Technical Staff

Technical Director	OKOBIRA, Tadashi
Technical Chief	MATSUKAWA, Shinya
Technical Senior Staff	IKEGAMI, Katsuya
Technical Senior Staff	OGISHIMA, Masumi

Chart of Administrative Organization



Meeting and Committee

Executive Board Meeting
Planning Meeting
Faculty Meeting
Faculty Advisors Meeting
Safety and Health Committee
Faculty Selection Committee
Technical Services Management Committee
Admissions Committee
Academic Affairs Committee
Student Affairs Committee
Dormitory Committee
Information Disclosure Committee
Budget Committee
Faculty Development (FD) Committee
Intellectual Property Committee
Self-Inspection and Evaluation Committee
Information Security Management Committee
Information Security Promotion Committee
Advanced Engineering Course Committee
Facilities and Environment Committee
Recombinant DNA Experiment Safety Committee
Research Ethics Review Committee
Harassment Prevention Committee
Fire and Disaster Prevention Committee
Anti-Bullying Committee
Committee for Reasonable Accommodation

Educational Principle

OUR STUDENTS SHOULD BE EDUCATED TO BE TECHNOLOGICAL ENGINEERS CHARACTERIZED BY CREATIVITY, SELF-DEVELOPMENT, INTERDISCIPLINARITY, AND INTERNATIONALITY ON THE BASIS OF EXTENSIVE KNOWLEDGE OF BASIC TECHNOLOGY AS WELL AS HIGH CULTURE



AIM AT COPING WITH PROBLEMS FLEXIBLY FOR THE GOAL OF DEVELOPING HUMAN FRIENDLY TECHNOLOGY HARMONIZED WITH NATURAL ENVIRONMENT

Educational Goals

Regular Course

(A) Good education and international minds

(A-1) Consideration: To be able to view the situation from a global and multifaceted perspective
(A-2) Ethical sense: To be able to recognize the role of technology in nature or society and be aware of their social responsibilities
(A-3) Communication skills: To be able to read and express themselves appropriately and smoothly

(B) Discipline-specific knowledge combined with interdisciplinary understanding

(B-1) Basic knowledge: To understand the basic subject matter of discipline-specific fields
(B-2) Technological expertise: To understand the content of discipline-specific fields
(B-3) Practice: To be able to understand the content of experiments or exercises to conduct them and discuss them
(B-4) Interdisciplinary technological knowledge: To have knowledge and skills of diverse fields with a vision of applying them in a compound approach

(C) Creativity and engineering design ability

(C-1) Problem-exploring ability: To be able to identify problems and understand their nature
(C-2) Problem-solving ability: To be able to solve problems using education and practical knowledge acquired

Advanced Engineering Course

(A) Good education and international minds

(A-1) Multifaceted view: To be able to view the situation from different perspectives
(A-2) High ethical sense: To be able to establish ethical sense as engineers
(A-3) Communication skills: To be able to communicate with others well in Japanese and also in foreign languages

(B) Discipline-specific expertise and interdisciplinary understanding

(B-1) Basic knowledge of technology: To be able to understand basic technological knowledge for the practical application in their special fields
(B-2) Technological expertise: To be able to understand technological expertise deeply
(B-3) Practice: To be able to conduct experiments and exercises completely
(B-4) Interdisciplinary technological knowledge: To learn technological interdisciplinary knowledge for the practical application in discipline-specific expertise

(C) Creativity and engineering design ability

(C-1) Problem-exploring ability: To be able to explore and comprehend problems to improve the present situation
(C-2) Problem-solving ability: To acquire engineering design ability to deal with various problems

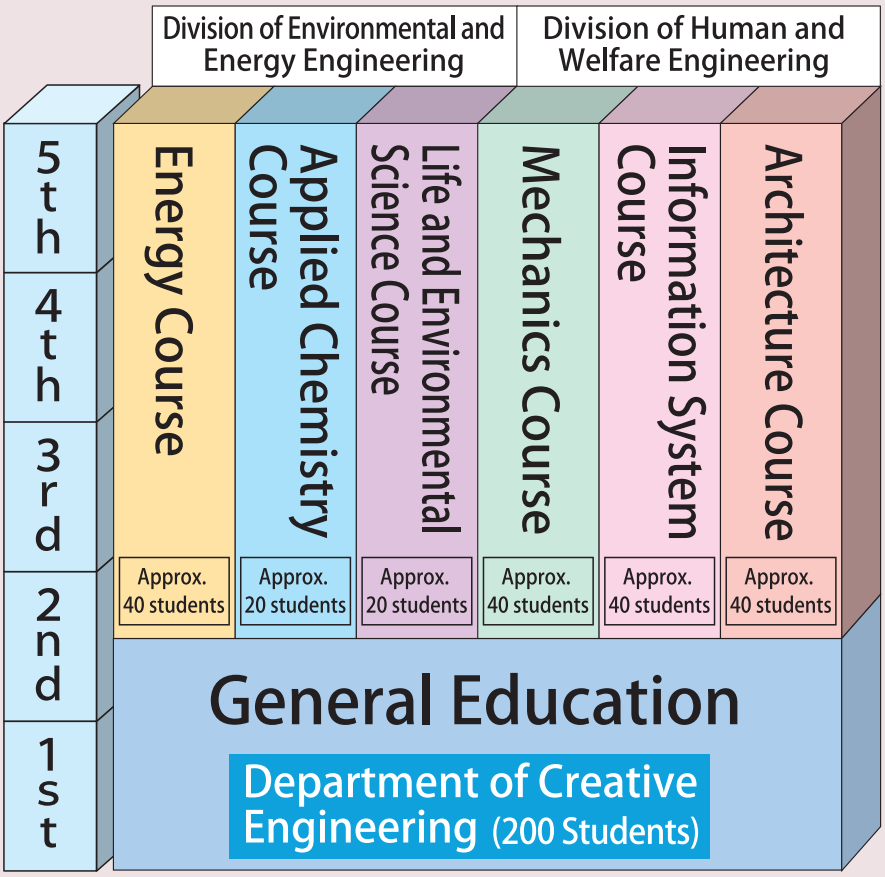
Department of Creative Engineering

Modern technology and engineering has become increasingly complex, multifaceted, and globalized. Engineers can no longer be hyperspecialized in only one field but must rather be broadminded and capable of working cooperatively across specializations, cultures, and languages. The Department of Creative Engineering attempts to produce such engineers through its two different divisions and six courses.

The first one and a half years are spent in widely ranging basic studies that cover many different fields of specialization, after which, students may select their major course of study. This will ensure that students have been exposed to both the basic aspects of science and technology but also develop the in-depth skills they are likely to need in the future.

Each course is designed to motivate students to conduct research appropriate to their developmental stage. The aim of which is to train students to be both creative and practical.

To complement their specialized and technical knowledge, students are also encouraged to develop a deep world historical view, philosophical thinking, knowledge of politics, economics, and language. Graduates are expected to be globally minded engineers with the ability to work actively worldwide.





▲Electrician Practice



▲Welding Practice



▲Internship Program

Three Policies

[Diploma Policy (DP): Policy on certifying graduation]

We certify the graduation of those who have achieved all of the learning and education goals of the Creative Engineering Department, which aims to train the following types of engineers who can flexibly respond to modern challenges such as natural disasters and the aging society, by completing its entire course, and grant them diplomas.

1) Engineers with broad, fundamental engineering knowledge and independence
2) Engineers who have advanced knowledge and creativity in specialized engineering and who have acquired practical skills
3) Engineers who are capable of self-development and improvement, and who can contribute to the development of society through "Monozukuri" (manufacturing)
4) Engineers who understand diverse values and can play an active role in interdisciplinary technical fields
5) Engineers with broad vision and education who can play an active role in the international community

Energy Course

The academic and technical ability in energy-related engineering, and the practical ability to apply it to help build a sustainable society, together with a knowledge of the current state of energy production and consumption that enables the student to respond to global social needs such as energy issues.

Applied Chemistry Course

The academic and technical ability in applied chemistry, an awareness of the role of chemistry in addressing the challenges of the natural environment, and the practical ability to help resolve them, together with a broad foundation of engineering knowledge that enables the student to respond to global social needs such as environmental issues.

Life and Environmental Science Course

The academic and technical ability in environmental engineering and biotechnology, and the practical ability to apply it to help address a range of global environmental problems, together with a broad foundation of engineering knowledge that enables the student to respond to increasingly diverse social needs such as food issues.

Mechanics Course

The academic and technical ability in mechanical engineering, an awareness of the realization of a welfare society in which human society and intelligent machines coexist, and the practical ability to contribute to society through intelligent mechanical technology, together with a foundation in welfare engineering and electronics related to mechanical engineering that enables the student to play an active role in the social issues of an aging region.

Information System Course

The academic and technical ability in information systems, and the practical ability to contribute to improving people's quality of life through the development of such systems, together with a knowledge of information systems and related fields that enables the student to respond to society's needs in information and communications technology.

Architecture Course

The academic and technical ability in architecture, an awareness of the relationship between architecture and human society, and the practical ability to help create safe, secure, rich, and appealing living environments, together with a knowledge of architecture and related engineering fields that enables the student to respond to the needs of local communities, including urban issues.

[Curriculum Policy (CP): Policy on the design and implementation of the curriculum]

To develop the abilities set out in the Diploma Policy, the curriculum is organized as follows.

Methods of Academic Assessment

(1) For subjects delivered in the "class" format and for some "seminar" subjects, the degree to which learning outcomes have been achieved is assessed against each subject's attainment targets, using the results of the assessment methods specified for that subject, such as regular examinations, portfolios, and presentations.
(2) For subjects delivered in the "experiment and practical training" format and for some "seminar" subjects, the degree to which learning outcomes have been achieved is assessed against each subject's attainment targets, using the methods specified for that subject, such as presentations and portfolios.
(3) For the graduation research project, the degree to which learning outcomes have been achieved is assessed comprehensively against the attainment targets, taking into account the thesis presenting the research results, the research presentation, and the student's engagement with the work.

Grading and Criteria for the Award of Credit

Learning outcomes in each subject are assessed comprehensively using the assessment methods established in accordance with the "Methods of Academic Assessment."

The specific attainment targets and assessment methods for each subject are set out in the syllabus.

Grades are awarded either on a 100-point scale or on a pass/fail basis. Credit is granted for a score of 60 or above on the 100-point scale, or for a grade of "pass."

1) Subjects are provided to develop engineers with a broad foundation of engineering knowledge and the capacity to act on their own initiative.
2) Subjects are provided to develop engineers with advanced knowledge of specialized engineering, abundant creativity, and practical ability.
3) Subjects are provided to develop engineers with a strong capacity for self-development and self-improvement who can contribute to the advancement of society through "monozukuri" (manufacturing).
4) Subjects are provided to develop engineers who understand diverse values and can be active in interdisciplinary technical fields.
5) Subjects are provided to develop engineers with the broad perspective and cultural grounding to be active in the international community.

Common Subjects

To develop a broad foundation of engineering knowledge (B-1), the curriculum provides general subjects such as Fundamental Analysis and Basic Science, and specialized subjects such as Basic Engineering I, II, and III and Information Literacy I and II. To develop the capacity for inquiry needed to act on one's own initiative (C-1), it provides the general subjects Basic Physics I and II and specialized subjects such as Introduction to Entrepreneurship and Exercises on Engineering.

To develop practical ability (B-3), the curriculum provides specialized subjects such as Drawing and Experiments and Exercises in Creative Engineering. Subjects for developing advanced knowledge of specialized engineering (B-2) are provided as specialized subjects within each course and are therefore not included among the common subjects.

To develop a sense of ethics (A-2), the curriculum provides general subjects such as Modern and Contemporary Society I, Geography, and Chemistry II, and specialized subjects such as Basic Engineering I and Engineering Ethics.

To develop the knowledge needed to be active in interdisciplinary technical fields (B-4), the curriculum provides specialized subjects such as Basic Engineering III and Local Community Analysis.

To develop the broad perspective and cultural grounding needed to be active in the international community (A-1), the curriculum provides general subjects such as Geography and History. To develop the communication skills needed to be active in the international community (A-3), it provides general subjects such as Literature I, English I, and English Communication B.

Energy Course

To build foundational knowledge (B-1), the curriculum provides basic subjects for engineering such as Electric Circuits Fundamentals and Electromagnetism Fundamentals. To cultivate the capacity for inquiry (C-1), it provides Graduation Research II.

To build specialized knowledge (B-2), the curriculum provides foundation subjects in electrical and energy engineering such as Electric Circuits II and Electromagnetism II; power engineering subjects such as Electrical Power Generation Engineering; electronics subjects such as Electronic Circuits I and II and Electronic Device Engineering; information and communication engineering subjects such as Basic Communication Engineering; and Graduation Research I. To develop practical ability (B-3), it provides exercise and experiment subjects such as Exercises in Energy Engineering and Experiments in Energy Engineering I, II, and III.

To cultivate problem-solving ability (C-2), the curriculum provides Graduation Research II.

To develop interdisciplinary knowledge (B-4), the curriculum provides energy-related subjects such as Introduction to Environmental and Energy Engineering, Environmental Engineering, and Energy Engineering, together with subjects such as Introduction to Physical Chemistry, Thermodynamics, and Hydraulics.

To cultivate communication skills (A-3), the curriculum provides Graduation Research II.

Applied Chemistry Course

To build foundational knowledge (B-1), the curriculum provides basic subjects for engineering such as Basic Chemistry and Analytical Chemistry. To cultivate the capacity for inquiry (C-1), it provides Graduation Research II.

To build specialized knowledge (B-2), the curriculum provides basic subjects for engineering such as Organic Chemistry II and Physical Chemistry II, together with advanced specialized subjects such as Materials Chemistry and Biological Engineering, and Graduation Research I. To develop practical ability (B-3), it provides experiment and exercise subjects such as Basic Exercise for Engineering and Basic Experiments in Applied Chemistry.

To cultivate problem-solving ability (C-2), the curriculum provides Graduation Research II.

To develop interdisciplinary knowledge (B-4), the curriculum provides energy-related subjects such as Introduction to Environmental and Energy Engineering, Environmental Engineering, and Energy Engineering; engineering foundation subjects such as Basic Electrical Engineering I and Basic Mechanical Engineering I; and subjects such as Functional Materials Engineering.

To cultivate communication skills (A-3), the curriculum provides Graduation Research II.

Life and Environmental Science Course

To build foundational knowledge (B-1), the curriculum provides basic subjects for engineering such as Basic Chemistry and Analytical Chemistry. To cultivate the capacity for inquiry (C-1), it provides Graduation Research II.

To build specialized knowledge (B-2), the curriculum provides basic subjects for engineering such as Organic Chemistry II and Physical Chemistry II, together with advanced specialized subjects such as Materials Chemistry and Biological Engineering, and Graduation Research I. To develop practical ability (B-3), it provides experiment and exercise subjects such as Basic Exercise for Engineering and Basic Experiments in Life and Environmental Science.

To cultivate problem-solving ability (C-2), the curriculum provides Graduation Research II.

To develop interdisciplinary knowledge (B-4), the curriculum provides energy-related subjects such as Introduction to Environmental and Energy Engineering, Environmental Engineering, and Energy Engineering; engineering foundation subjects such as Basic Electrical Engineering I and Basic Mechanical Engineering I; and subjects such as Bioreaction Engineering.

To cultivate communication skills (A-3), the curriculum provides Graduation Research II.

Mechanics Course

To build foundational knowledge (B-1), the curriculum provides basic subjects for engineering such as Strength of Materials I, II, and III; Hydraulics; Thermodynamics; Materials Science I and II; Mechanism and Elements; and Basic Mechatronics I and II. To cultivate the capacity for inquiry (C-1), it provides Graduation Research II.

To build specialized knowledge (B-2), the curriculum provides foundation subjects in mechanical engineering such as Mechanical Dynamics, Fluid Dynamics, Measurement Engineering I, II, and III, and Basic Mechanics of Plasticity, together with Graduation Research I. To develop practical ability (B-3), it provides exercise and experiment subjects such as Experiments in Engineering I, II, and III and Exercise for Creative Design I and II.

To cultivate problem-solving ability (C-2), the curriculum provides Graduation Research II.

To develop interdisciplinary knowledge (B-4), the curriculum provides subjects such as Human Welfare Engineering, Information Welfare Engineering, Social Services for the Elderly, and Electrical-Electronics Engineering I and II.

To cultivate communication skills (A-3), the curriculum provides Graduation Research II.

Information System Course

To build foundational knowledge (B-1), the curriculum provides basic subjects for engineering such as Fundamental Electric and Electronic Engineering and Programming I and II. To cultivate the capacity for inquiry (C-1), it provides Graduation Research II.

To build specialized knowledge (B-2), the curriculum provides electrical and electronic engineering subjects such as Electric Circuits II and Electronic Circuits I and II; information engineering subjects such as Information Networks and Compilers; and Graduation Research I. To develop practical ability (B-3), it provides exercise and experiment subjects such as Information Systems Exercises I, II, and III and Electronics Experiment I, II, and III.

To cultivate problem-solving ability (C-2), the curriculum provides Graduation Research II.

To develop interdisciplinary knowledge (B-4), the curriculum provides subjects such as System Programming, Human Welfare Engineering, Information Welfare Engineering, Social Services for the Elderly, Artificial Intelligence, and Control Engineering I and II.

To cultivate communication skills (A-3), the curriculum provides Graduation Research II.

Architecture Course

To build foundational knowledge (B-1), the curriculum provides subjects spanning planning through construction, such as Dwelling Environmental Planning, Environmental Engineering in Architecture I, Structural Mechanics I, and Building Construction. To develop

the capacity for inquiry (C-1), it provides design subjects such as Architectural Design and Drawing III and IV, together with Graduation Research II.

To build specialized knowledge (B-2), the curriculum provides subjects spanning planning through construction, such as Welfare Environment Planning, Building Environment II, Reinforced Concrete Structure I, and Building Production, together with Graduation Research I. To develop practical ability (B-3), it provides experiment and integrative subjects such as Experiment of Building Materials and Graduation Design.

To cultivate problem-solving ability (C-2), the curriculum provides Graduation Research II.

To develop interdisciplinary knowledge (B-4), the curriculum provides subjects such as Human Welfare Engineering, Information Welfare Engineering, Social Services for the Elderly, and Universal Design.

To cultivate communication skills (A-3), the curriculum provides Graduation Research II.

[Admission Policy (AP): Eligibility requirements (for an enrollee in a regular course)]

<Profile of a desirable student>

Through an educational program that organically links the five years of the regular course with the two years of the advanced course, the College aims to develop practical, advanced engineers who are creative, diverse, interdisciplinary, and internationally minded, on the basis of a broad engineering foundation and a rich liberal arts education. In particular, in order to develop engineers who take the initiative in tackling the major challenges facing humanity — those arising from human activity and those brought about by natural disasters — who can resolve the various problems of contemporary society, and who can create technologies that carry hope into the future, the College seeks junior high school graduates and others with sound basic academic ability who are:

1) People interested in "Monozukuri" (manufacturing)
2) People with a spirit of taking on challenges
3) People who can work with others
4) People who can continue something tenaciously
5) People who want to contribute to society

<Basic Policy for Admission>

In order to admit students who meet the requirements of the <desirable student> there are three methods of selection: <Selection by recommendation,> <Selection by academic achievement,> and <Special selection for returnee students.>

◇Selection by recommendation

Applicants must be expected to graduate from junior high school, be recommended by the principal of the school in which they are enrolled, and be able to guarantee that they will be admitted if they are accepted. In addition to evaluating whether the applicant is an excellent person and has the aptitude to become an engineer based on the recommendation letter and survey submitted by the principal of the school in which the applicant is enrolled, the applicant's interest in manufacturing, spirit of challenge acquired through junior high school life, and communication skills will be evaluated through an interview.

◇Selection by academic achievement

Applicants must have graduated or be expected to graduate from junior high school. The results of the academic achievement test (five subjects: science, English, mathematics, Japanese, and social studies using a mark-sheet system) will be used to evaluate the basic academic skills of the applicant, and the investigation report submitted by the principal of the school in which the applicant is enrolled (or graduated) will be used to evaluate whether the applicant has the necessary background to receive an education at the school.

◇Special selection for returnee students

Applicants must be returnee students. Applicants will be selected based on their basic academic ability in the academic achievement test (four subjects: science, English, mathematics, and Japanese using a mark-sheet system), and their aptitude for the school as assessed by a research report submitted by the principal of the school they are enrolled in (or graduated from) and an interview.

[Admission Policy (AP): Eligibility requirements (Undergraduate students)]

<Profile of a desirable student>

Through an educational program that organically links the five years of the main course with the two years of the major course. Based on broad engineering foundations and enriched education, we aim to develop skilled engineers who are familiar with creativity, diversity, interdisciplinarity, and internationality. In particular, we aim to nurture engineers who can take the initiative in solving major problems facing humanity, such as those caused by human activities and natural disasters, and who can solve various problems facing modern society as well as create technologies that will bring hope to the future. We are looking for high school graduates with academic skills in specialized fields, mathematics, and English.

1) People interested in "Monozukuri" (manufacturing)
2) People with a spirit of taking on challenges
3) People who can work with others
4) People who can continue something tenaciously
5) People who want to contribute to society

<Basic Policy For Admission>

In order to admit students who meet the requirements of the <desirable student>, we will select students by the following methods.

Applicants must be expected to graduate from high school or secondary school, be recommended by the principal of the school in which they are enrolled, and be able to guarantee that they will be admitted if they are accepted. In addition to evaluating whether the applicant has the excellence personality and basic academic ability based on the recommendation letter and survey submitted by the principal of the school in which they are enrolled, the applicant's motivation and aptitude for engineering will be evaluated through an interview. The applicants will be also evaluated whether the applicant has the ability to acquire specialized subjects at our school through an academic ability test (Basic Engineering (application of knowledge about mathematics and science) and specialized subjects), and the above results are combined to select students.

Division of Environmental and Energy Engineering

The object of the Division of Environmental and Energy Engineering is preserving “nature”. The goal of this division is to train students to be engineers who deal with various environmental issues such as energy and food production. These issues have to be addressed for building a sustainable society.

The Division of Environmental and Energy Engineering is composed of three courses: “Energy,” “Applied Chemistry,” and“Life and Environmental Science”. These three technological fields are necessary for addressing the issues mentioned above.

The development of new industries in environmental and energy focuses on the “Ariake area,” where our college is located. This educational program aims at solving local issues through collaboration with local government and companies.

This division offers some subjects in common among the three courses, which contain lectures and exercises on environmental and energy engineering as fundamental subjects. Studying these subjects will lead students to be successful engineers in these fields. These courses give students both basic and advanced level of environmental and energy technologies and related fields.

Educational Purposes

The goal of this division is to train our students to be engineers who can meet environmental challenges, and deal with various problems of the environment, energy, and food.

Therefore, this division welcomes students with the following qualities.

1) Students who have motivation to study mathematics and science, and are interested in conducting experiments.
2) Students who have a strong desire to acquire knowledge in specialized fields.
3) Students who take a scientific interest in a wide range of subjects.

Energy Course

The expansion in energy consumption due to an increasing global population and rising living standard leads to many natural resource and environmental problems. Grappling with these problems has become an urgent issue for the international community.

Especially, the securement and development of energy resources and the efficient utilization of them have become a very important issue to establish a sustainable society.

The curriculum is designed to train students to become engineers who can apply their knowledge about the development and utilization of new types of energy, and about efficient energy conversion while taking into account the global environment and sustainable growth. These engineers will be tackling various energy-related issues while considering environmental harmony with nature by developing and applying energy-related technologies in various fields.

Therefore, this course welcomes students with the following qualities.

1) Students who are interested in various natural phenomena and have the will to study science.
2) Students who are interested in experiments and craft-work and are able to cooperate and work with others.
3) Students who are interested in energy and environmental problems and have the will to contribute to society through technology.

Educational Purposes

1) To develop practical engineers with basic scholastic ability and technology about energy-related engineering.
2) To develop practical engineers who can contribute to establishing a sustainable society by using the knowledge and skills about the generation and conversion of energy.
3) To develop engineers who acquire knowledge about the issues of energy generation and consumption, and contribute to solving related issues.

Applied Chemistry Course

The chemistry course aims to solve many diverse and complicated issues: such as developing industry, mitigating natural disasters, limiting environmental destruction, creating resources and solving energy problems. Chemistry provides solutions to many of these problems by creating high-value materials and new products from raw materials.

The goal of the applied chemistry course is to produce practical engineers who can analyze, respond to, and solve problems by using chemical techniques. To achieve this goal, this course helps students to study basic subjects, techniques in chemistry, and its related fields so that they can create new materials, give new functions to materials, and evaluate these new materials or functions with consideration for environmental sustainability.

Therefore, this course welcomes students with the following qualities.

1) Students who listen to others and have strong motivation to improve their communication abilities.
2) Students who concentrate on long-term experiments in cooperation with others and are able to work with perseverance.
3) Students who have good manners and respect others.

Educational Purposes

1) To develop engineers with basic academic ability and knowledge of technology in applied chemistry.
2) To develop practical engineers who recognize the role of chemistry in solving environmental problems, and can contribute to the solutions for these problems.
3) To develop engineers who acquire a wide range of basic engineering knowledge about chemistry, and can apply it to global social needs.

Life and Environmental Science Course

Biotechnology is a form of engineering that is based on the functions and organization of living organisms. In recent years, expectations for biotechnology have increased with the aim of improving living standards through the application of various technologies in fields such as environmental conservation, medicine and food production.

In the environmental life course, we aim to develop practical engineers who can identify and solve problems by themselves, utilizing their knowledge of environmental engineering and biotechnology to understand life phenomena, for solving various problems such as food production, environmental issues, energy issues, and diversification of resources.

Therefore, this course welcomes students with the following qualities.

1) Students who are interested in life phenomena, biological resources, and natural environments, and can concentrate on study and experiments for a long period of time.
2) Students who are able to explain their thoughts and have acquired a cooperative personality so that they can work with others.
3) Students who have good manners and respect others.

Educational Purposes

1) To develop engineers with basic academic ability and technical skills in the fields of environmental engineering and biotechnology.
2) To develop practical engineers who understand biological molecules and life phenomena, and can contribute to the solution of various global environmental problems by using this knowledge.
3) To develop engineers who acquire a wide range of basic engineering knowledge in environmental and life science, and can face global social needs such as food production.

Educational Personnel

Title	Name	Subjects	Research Fields
Professor Ph.D.	ENOMOTO, Naoya	Physical Chemistry, Experiments of Physical Chemistry	Inorganic Materials Chemistry
Professor Ph.D.	NANBU, Yukihisa	Electric and Electronic Circuit Design, Energy Systems	Communication Engineering
Professor Ph.D.	ISHIMARU, Satoshi	Electronic Engineering, Electronic Devices Engineering	Semiconductor Physics, Photo-electrochemistry
Professor Ph.D.	KOBAYASHI, Masayuki	Biophysical Chemistry, Enzyme Chemistry	Biophysical Chemistry
Professor Ph.D.	KONO, Susumu	Electric Machinery, High Voltage Engineering	Pulsed Power Engineering
Professor Ph.D.	TANAKA, Yasunori	Inorganic Chemistry I, Materials Chemistry	Thermal Spray Engineering, Inorganic Materials Chemistry
Professor Ph.D.	TAZUNEKI, Shin-ichi	Computer Science I/II, Computer Engineering	Software Engineering, Information and Systems in Education
Professor Ph.D.	ISHIBASHI, Takaaki	Electric Circuits I, Control Engineering I	Signal Processing, Welfare Engineering
Professor Ph.D.	UCHIDA, Masaya	Introduction to Environmental and Energy, Engineering, Environmental Chemistry	Environmental Chemistry
Professor Ph.D.	OKOBIRA, Tadashi	Instrumental Analysis I/II, Polymer Chemistry I/II	Polymer Science and Engineering, Computational Chemistry
Associate Professor Ph.D.	DEGUCHI, Tomoaki	Microbiological Engineering, Food Engineering	Microbiological Engineering
Associate Professor Ph.D.	KONDO, Mitsuru	Chemical Reaction Engineering, Exercises in Applied Chemistry I	Chemical Engineering
Associate Professor Ph.D.	FUJIMOTO, Daisuke	Organic Chemistry I, II	Organic Chemistry
Associate Professor Ph.D.	TAKABAYASHI, Susumu	Electromagnetism I/II, Electric and Electronic Circuit Design	Plasma Engineering, Carbon Materials Science
Associate Professor Ph.D.	SHIMIZU, Akio	Experiments in Energy Engineering I, Electronic Circuits I/II	Electronic Circuits
Lecturer Ph.D.	ISHIKAWA, Gento	Basic Engineering III, Biochemistry I	Bioorganic chemistry
Lecturer Ph.D.	SHIRAKAWA, Tomohide	Electric Circuits Fundamentals, Experiments in Energy Engineering I/III	Power Electronics
Professor Ph.D.	LIU, Dan	Analytical Chemistry, Chemical Engineering	Analytical Chemistry, Environmental Engineering
Professor Ph.D.	TOMINAGA, Nobuaki	Basic Biology, Biological Engineering	Biochemistry

Part-time Instructors

Name	Subjects	Notes
SAITO, Hironori	Heat Transfer Engineering, Internal Combustion Engine	Prof. Sojo University
ISAMI, Hidetada	Engineering Ethics	Urata Civil Consultants Co., Ltd
MINAMI, Akihiro	Basic Mechanical Engineering	Prof. Emeritus, Ariake Kosen
KUBARA, Masaya	Engineering Ethics	Kubara Engineering Office
EGASHIRA, Chikara	Quality Management	FINE TEC

Curriculum (Energy Course)

Applicable to students enrolled from AY 2024 onward

Subjects			Number of Credits	Number of Credits by Grades					Notes
				1st	2nd	3rd	4th	5th	
Required Subjects	Basic Engineering	Basic Engineering I	1	1					General Education
		Basic Engineering II	1	1					General Education
		Basic Engineering III	1		1				General Education
		Drawing	1	1					General Education
		Information Literacy I	2	2					General Education
		Information Literacy II	1		1				General Education
		Experiments and Exercises in Creative Engineering	1	1					General Education
		Local Community Analysis	1		1				General Education
		Introduction to Entrepreneurship	1		1				General Education
		Exercises on Engineering	1			1			General Education
		Basic Exercise for Engineering	1		1				General Education
		Applied Physics	4			4			General Education
		Applied Mathematics I	2				2		General Education
		Applied Mathematics II	1				1		General Education
		Basic Exercise for Creative design	1				1		1credit=30h (Class)+15h (Self-study)
		Engineering Ethics	1					1	General Education・1credit=30h (Class)+15h (Self-study)
	Environmental and Energy Engineering	Introduction to Environmental and Energy Engineering	1		1				Division-wide
		Creative Practice for Engineering	1			1			Division-wide
		Environmental Engineering	1				1		Division-wide・1credit=30h (Class)+15h (Self-study)
		Energy Engineering	1				1		Division-wide・1credit=30h (Class)+15h (Self-study)
	Fundamentals of Electric and Energy Engineering	Electric Circuits Fundamentals	1		1				
		Electric Circuits I	2			2			
		Electric Circuits II	2				2		1credit=15h (Class)+30h (Self-study)
		Electromagnetism Fundamentals	1		1				
		Electromagnetism I	2			2			
		Electromagnetism II	2				2		1credit=15h (Class)+30h (Self-study)
		Electrical and Electronic Measurements	2			2			
		Electrical and Electronic Materials	1					1	1credit=30h (Class)+15h (Self-study)
		Control Engineering I	1				1		1credit=30h (Class)+15h (Self-study)
		Control Engineering II	1				1		1credit=30h (Class)+15h (Self-study)
		Electric and Electronic Circuit Design	2					2	1credit=30h (Class)+15h (Self-study)
		Exercises in Energy Engineering	1				1		1credit=30h (Class)+15h (Self-study)
		Experiments in Energy Engineering I	4			4			
		Experiments in Energy Engineering II	2				2		1credit=45h (Class)+0h (Self-study)
		Experiments in Energy Engineering III	2					2	1credit=45h (Class)+0h (Self-study)
	Electric Power Engineering	Electric Machinery	2			2			
		Energy Conversion Engineering	2				2		1credit=15h (Class)+30h (Self-study)
		Electrical Power Generation Engineering	1				1		1credit=30h (Class)+15h (Self-study)
		Electrical Power Transmission Engineering	1					1	1credit=30h (Class)+15h (Self-study)
		Power Electronics	1					1	1credit=30h (Class)+15h (Self-study)
	Electronic Engineering	Electronic Engineering	2			2			
		Electronic Device Engineering	1				1		1credit=30h (Class)+15h (Self-study)
		Electronic Circuits I	1				1		1credit=30h (Class)+15h (Self-study)
		Electronic Circuits II	1				1		1credit=30h (Class)+15h (Self-study)
	Computer and Communication Engineering	Computer Science I	1		1				
		Computer Science II	2			2			
		Computer Engineering	1				1		1credit=30h (Class)+15h (Self-study)
		Communication Engineering Fundamentals	1					1	1credit=30h (Class)+15h (Self-study)
	Graduation Research	Graduation Research I	2				2		
		Graduation Research II	8					8	
	Subtotal		78	6	9	22	24	17	
Elective Subjects	Electric Power and Energy Engineering	High Voltage Engineering	1					1	1credit=30h (Class)+15h (Self-study)
		Energy Resources	2					2	1credit=15h (Class)+30h (Self-study)
		Energy Systems	2					2	1credit=15h (Class)+30h (Self-study)
		Energy Applications	1					1	1credit=30h (Class)+15h (Self-study)
		Laws and Regulations on Electrical Facilities	1					1	1credit=30h (Class)+15h (Self-study)
	Interdisciplinary Subjects	Digital Circuits	1				1		1credit=30h (Class)+15h (Self-study)
		Reliability Engineering	1					1	1credit=30h (Class)+15h (Self-study)
	Interdisciplinary and Energy-related Subjects	Introduction to Physical Chemistry	1					1	1credit=30h (Class)+15h (Self-study)
		Thermodynamics	1				1		1credit=30h (Class)+15h (Self-study)
		Internal Combustion Engine	1					1	1credit=30h (Class)+15h (Self-study)
		Heat Transfer Engineering	1					1	1credit=30h (Class)+15h (Self-study)
		Fluid Engineering	1					1	1credit=30h (Class)+15h (Self-study)
		Numerical Computation	1					1	Select 1 from 2
		Hydraulics	1					1	1credit=30h (Class)+15h (Self-study)
		Signal Processing	1					1	Select 1 from 2
	Subtotal		17	0	0	0	2	15	
Total of Credits Offered			95	6	9	22	26	32	
Earnable Credit			93	6	9	22	26	30	
Non-classroom subjects		Extramural Practice	1(2)				1(2)		
		Special Lecture	1				1		
		Credits granted for external certificates (Major Subjects) I	1	Course registration rules: Specified separately					
		Credits granted for external certificates (Major Subjects) II	2						
		Credits granted for external certificates (Major Subjects) III	3						
		Credits granted for external certificates (Major Subjects) IV	4						
		Subjects offered at other KOSEN and universities (Major Subjects)	Number of Credits Earned at Other College of Technologies or Universities						Course registration rules: Specified separately

Curriculum (Applied Chemistry Course)

Applicable to students enrolled from AY 2024 onward

Subjects			Number of Credits	Number of Credits by Grades					Notes
				1st	2nd	3rd	4th	5th	
Required Subjects	Basic Subjects	Basic Engineering I	1	1					General Education
		Basic Engineering II	1	1					General Education
		Basic Engineering III	1		1				General Education
		Drawing	1	1					General Education
		Information Literacy I	2	2					General Education
		Information Literacy II	1		1				General Education
		Experiments and Exercises in Creative Engineering	1	1					General Education
		Local Community Analysis	1		1				General Education
		Introduction to Entrepreneurship	1		1				General Education
		Exercises on Engineering	1			1			General Education
		Basic Exercise for Engineering	1		1				General Education
		Applied Physics	4			4			General Education
		Applied Mathematics I	2				2		General Education
		Applied Mathematics II	1				1		General Education
		Basic Exercise for Creative design	1				1		1credit=30h (Class)+15h (Self-study)
		Engineering Ethics	1					1	General Education・1credit=30h (Class)+15h (Self-study)
		Academic Skills	1		1				
	Environmental and Energy Engineering	Introduction to Environmental and Energy Engineering	1		1				Division-wide
		Creative Practice for Engineering	1			1			Division-wide
		Environmental Engineering	1				1		Division-wide・1credit=30h (Class)+15h (Self-study)
		Energy Engineering	1				1		Division-wide・1credit=30h (Class)+15h (Self-study)
	Specialized Subjects	Basic Chemistry	1		1				
		Analytical Chemistry	1		1				
		Inorganic Chemistry I	2			2			
		Organic Chemistry I	2			2			
		Physical Chemistry I	2			2			
		Basic Chemical Engineering	1			1			
		Biochemistry I	1			1			
		Organic Chemistry II	2				2		1credit=15h (Class)+30h (Self-study)
		Physical Chemistry II	1				1		1credit=30h (Class)+15h (Self-study)
		Chemical Engineering	2				2		1credit=15h (Class)+30h (Self-study)
		Inorganic Chemistry II	1				1		1credit=30h (Class)+15h (Self-study)
		Biochemistry II	1				1		1credit=30h (Class)+15h (Self-study)
		Organic Chemistry III	1				1		1credit=30h (Class)+15h (Self-study)
		Physical Chemistry III	1				1		1credit=30h (Class)+15h (Self-study)
		Physical Chemistry IV	1					1	1credit=30h (Class)+15h (Self-study)
	Advanced and Applied Subjects	Materials Chemistry	1				1		1credit=30h (Class)+15h (Self-study)
		Instrumental Analysis I	2					2	1credit=15h (Class)+30h (Self-study)
		Basic Biological Engineering	1				1		1credit=30h (Class)+15h (Self-study)
		Chemical Reaction Engineering	1				1		1credit=30h (Class)+15h (Self-study)
		Microbiological Engineering	1				1		1credit=30h (Class)+15h (Self-study)
		Process System Engineering	1					1	1credit=30h (Class)+15h (Self-study)
		Biological Engineering	2					2	1credit=15h (Class)+30h (Self-study)
		Polymer Chemistry I	2					2	1credit=15h (Class)+30h (Self-study)
	Experiments	Basic Experiments in Applied Chemistry	2		2				
		Experiments in Applied Chemistry I	2			2			
		Experiments in Applied Chemistry II	2			2			
		Experiments in Applied Chemistry III	1				1		1credit=45h (Class)+0h (Self-study)
		Experiments in Applied Chemistry IV	1				1		1credit=45h (Class)+0h (Self-study)
		Comprehensive Experiments in Applied Chemistry	1					1	1credit=45h (Class)+0h (Self-study)
	Graduation Research	Graduation Research I	2				2		
		Graduation Research II	9					9	
	Subtotal		77	6	11	18	23	19	
Elective Subjects	Basic Subjects	Basic Electrical Engineering I	1					1	1credit=30h (Class)+15h (Self-study)
		Basic Electrical Engineering II	1					1	1credit=30h (Class)+15h (Self-study)
		Basic Mechanical Engineering I	1					1	1credit=30h (Class)+15h (Self-study)
		Basic Mechanical Engineering II	1					1	1credit=30h (Class)+15h (Self-study)
		Quality Control	1					1	1credit=30h (Class)+15h (Self-study)
		Chemical English	1					1	1credit=30h (Class)+15h (Self-study)
	Advanced and Applied Subjects	Instrumental Analysis II	1					1	1credit=30h (Class)+15h (Self-study)
		Environmental Chemistry	1					1	1credit=30h (Class)+15h (Self-study)
		Polymer Chemistry II	1					1	1credit=30h (Class)+15h (Self-study)
		Functional Materials Engineering	1					1	1credit=30h (Class)+15h (Self-study)
		Industrial Materials	1					1	1credit=30h (Class)+15h (Self-study)
		Exercises in Applied Chemistry I	1				1		1credit=30h (Class)+15h (Self-study)
		Exercises in Applied Chemistry II	1				1		1credit=30h (Class)+15h (Self-study)
		Exercises in Applied Chemistry III	1					1	1credit=30h (Class)+15h (Self-study)
	Subtotal		14	0	0	0	2	12	
Total of Credits Offered			91	6	11	18	25	31	
Earnable Credit			91	6	11	18	25	31	
Non-classroom subjects		Extramural Practice	1(2)				1(2)		
		Special Lecture	1				1		
		Credits granted for external certificates (Major Subjects) I	1	Course registration rules: Specified separately					
		Credits granted for external certificates (Major Subjects) II	2						
		Credits granted for external certificates (Major Subjects) III	3						
		Credits granted for external certificates (Major Subjects) IV	4						
		Subjects offered at other KOSEN and universities (Major Subjects)	Number of Credits Earned at Other College of Technologies or Universities						Course registration rules: Specified separately

Curriculum (Life and Environmental Science Course)

Applicable to students enrolled from AY 2024 onward

Subjects			Number of Credits	Number of Credits by Grades					Notes
				1st	2nd	3rd	4th	5th	
Required Subjects	Basic Subjects	Basic Engineering I	1	1					General Education
		Basic Engineering II	1	1					General Education
		Basic Engineering III	1		1				General Education
		Drawing	1	1					General Education
		Information Literacy I	2	2					General Education
		Information Literacy II	1		1				General Education
		Experiments and Exercises in Creative Engineering	1	1					General Education
		Local Community Analysis	1		1				General Education
		Introduction to Entrepreneurship	1		1				General Education
		Exercises on Engineering	1			1			General Education
		Basic Exercise for Engineering	1		1				General Education
		Applied Physics	4			4			General Education
		Applied Mathematics I	2				2		General Education
		Applied Mathematics II	1				1		General Education
		Basic Exercise for Creative Design	1				1		1credit=30h (Class)+15h (Self-study)
		Engineering Ethics	1					1	General Education・1credit=30h (Class)+15h (Self-study)
	Environmental and Energy Engineering	Introduction to Environmental and Energy Engineering	1		1				Division-wide
		Creative Practice for Engineering	1			1			Division-wide
		Environmental Engineering	1				1		Division-wide・1credit=30h (Class)+15h (Self-study)
		Energy Engineering	1				1		Division-wide・1credit=30h (Class)+15h (Self-study)
	Specialized Subjects	Analytical Chemistry	1		1				
		Basic Chemistry	1		1				
		Basic Biology	1		1				
		Inorganic Chemistry I	2			2			
		Organic Chemistry I	2			2			
		Physical Chemistry I	2			2			
		Basic Chemical Engineering	1			1			
		Biochemistry I	1			1			
		Organic Chemistry II	2				2		1credit=15h (Class)+30h (Self-study)
		Inorganic Chemistry II	1				1		1credit=30h (Class)+15h (Self-study)
		Physical Chemistry II	1				1		1credit=30h (Class)+15h (Self-study)
		Physical Chemistry III	1				1		1credit=30h (Class)+15h (Self-study)
		Chemical Engineering	2				2		1credit=15h (Class)+30h (Self-study)
		Biochemistry II	1				1		1credit=30h (Class)+15h (Self-study)
		Bioreaction Engineering	1				1		1credit=30h (Class)+15h (Self-study)
		Basic Biological Engineering	1				1		1credit=30h (Class)+15h (Self-study)
	Advanced and Applied Subjects	Materials Chemistry	1				1		1credit=30h (Class)+15h (Self-study)
		Microbiological Engineering	1				1		1credit=30h (Class)+15h (Self-study)
		Bioorganic Chemistry	1				1		1credit=30h (Class)+15h (Self-study)
		Biophysical Chemistry	1					1	1credit=30h (Class)+15h (Self-study)
		Process System Engineering	1					1	1credit=30h (Class)+15h (Self-study)
		Biological Engineering	2					2	1credit=15h (Class)+30h (Self-study)
		Instrumental Analysis I	2					2	1credit=15h (Class)+30h (Self-study)
		Polymer Chemistry I	2					2	1credit=15h (Class)+30h (Self-study)
	Experiments	Basic Experiments in Applied Chemistry	2		2				
		Experiments in Life and Environment I	2			2			
		Experiments in Life and Environment II	2			2			
		Experiments in Life and Environment III	1				1		1credit=45h (Class)+0h (Self-study)
		Experiments in Life and Environment IV	1				1		1credit=45h (Class)+0h (Self-study)
		Experiments in Biological Engineering	1					1	1credit=45h (Class)+0h (Self-study)
	Graduation Research	Graduation Research I	2				2		
		Graduation Research II	9					9	
	Subtotal		77	6	11	18	23	19	
Elective Subjects	Basic Subjects	Basic Electrical Engineering I	1					1	1credit=30h (Class)+15h (Self-study)
		Basic Electrical Engineering II	1					1	1credit=30h (Class)+15h (Self-study)
		Basic Mechanical Engineering I	1					1	1credit=30h (Class)+15h (Self-study)
		Basic Mechanical Engineering II	1					1	1credit=30h (Class)+15h (Self-study)
		Quality Control	1					1	1credit=30h (Class)+15h (Self-study)
	Advanced and Applied Subjects	Enzyme Chemistry	1				1		1credit=30h (Class)+15h (Self-study)
		Ecology	1				1		1credit=30h (Class)+15h (Self-study)
		Food Engineering	1					1	1credit=30h (Class)+15h (Self-study)
		Exercises in Biotechnology I	1					1	1credit=30h (Class)+15h (Self-study)
		Exercises in Biotechnology II	1					1	1credit=30h (Class)+15h (Self-study)
		Cell Biology	1					1	1credit=30h (Class)+15h (Self-study)
		Instrumental Analysis II	1					1	1credit=30h (Class)+15h (Self-study)
		Environmental Chemistry	1					1	1credit=30h (Class)+15h (Self-study)
		Genetic Engineering	1					1	1credit=30h (Class)+15h (Self-study)
	Subtotal		14	0	0	0	2	12	
Total of Credits Offered			91	6	11	18	25	31	
Earnable Credit			91	6	11	18	25	31	
Non-classroom subjects		Extramural Practice	1(2)				1(2)		
		Special Lecture	1				1		
		Credits granted for external certificates (Major Subjects) I	1	Course registration rules: Specified separately					
		Credits granted for external certificates (Major Subjects) II	2						
		Credits granted for external certificates (Major Subjects) III	3						
		Credits granted for external certificates (Major Subjects) IV	4						
		Subjects offered at other KOSEN and universities (Major Subjects)	Number of Credits Earned at Other College of Technologies or Universities						Course registration rules: Specified separately

Division of Human and Welfare Engineering

The goal of the Division of Human and Welfare Engineering is improving the quality of "people's lives." The division's purpose is to train engineers who can solve problems related to people such as urban living and adapting to an aging society such that quality of life can be improved.

This division contains three courses: "Mechanical Engineering," "Information System Engineering" and "Architecture."

The "Ariake area" has been facing many problems caused by the closure of the Miike Coal Mine. The area also has to cope with population decline and an aging society. In this division, these issues are incorporated into educational programs.

In the fundamental education, some subjects common to the three courses are offered to the students. The subjects cover social life, social welfare, life support, vital functions, and human engineering. Through studying both in the classroom and in the field, the course produces engineers able to deal with these and related problems. In each course, both the fundamental subjects and applied subjects are offered to the students.

Educational Purposes

The goal of this division is to develop engineers who can solve many problems, such as the urban problem and the aging society problem for the improvement of people's quality of life.

Therefore, this division welcomes students with the following qualities.

1) Students who are interested in mathematics, science, and other related subjects.
2) Students who are interested in mechanics and principles of things and have intentions to acquire technical knowledge.
3) Students who have intentions to enrich the lives of people through manufacturing.

Mechanics Course

Mechanics is the branch of dynamics concerned with the motion of objects. The mechanics course teaches four fundamental disciplines of mechanical engineering: mechanical dynamics, material mechanics, hydrodynamics, and thermodynamics. These engineers should be able to apply machine manufacturing with electronics and information and communication technology (ICT).

In order to design and produce cutting-edge machines such as hybrid vehicles, electric vehicles, airplanes, robots and home appliances, prospective students will learn not only the four conventional disciplines of mechanics, but also contemporary knowledge and skills that are required to solve issues of energy, environment, medicine welfare and system engineering through an interdisciplinary curriculum.

Therefore, this course welcomes students with the following qualities.

1) Students who are interested in mechanics and willing to acquire knowledge and skills related to the field.
2) Students who are enthusiastic to produce something new by using their original ideas based on science and technology.
3) Students who intend to create a future in which all people can live in an affluent society in full consideration of the environment.

Educational Purposes

1) To develop engineers who have reliable academic and engineering achievement.
2) To develop engineers who can use intelligent machines and contribute to society by utilizing intelligent mechanical engineering.
3) To develop engineers who have knowledge of mechanical engineering and related fields such as electronics and assistive technology in order to play active roles in tackling various problems of aging local societies.

Information System Course

Information systems using information and communication technologies (ICT) are required in various fields such as production, economics, medical services, welfare, and education. The information system course will develop (1) engineers with fundamental academic ability and fundamental technical ability about information systems including computer software and hardware, information networks, and embedded systems, (2) practical engineers who contribute to improve people's quality of life through development of information systems, (3) engineers who have technical knowledge about information systems and related fields and can flexibly respond to social needs. This course is housed in "the Division of Human and Welfare Engineering". We aim to develop engineers who have technical knowledge about human and welfare engineering, and can work to solve problems such as an aging society from an information system perspective.

Therefore, this course welcomes students with the following qualities.

1) Students who like mathematics, science and languages and can voluntarily make a strong effort.
2) Students who are interested in information and communication devices such as computers and smartphones.
3) Students who want to make information systems to be useful for people.

Educational Purposes

1) To develop engineers who have fundamental academic and technical ability about information systems.
2) To develop practical engineers who contribute to improving people's quality of life through the development of information systems.
3) To develop engineers who have technical knowledge about information systems and related fields and can flexibly respond to social needs.

Architecture Course

Human life is composed of the fundamental elements food, clothing, and housing. Architecture is directly related to "housing". In addition, Architecture has a close relationship with human society because it forms cities and the environment.

Thus, architectural engineers must strive to create comfortable and beautiful living spaces that are harmonized with climate and nature. They must also pursue both safety and comfort, and improve quality of life. Furthermore, they must deal with urban problems, environmental problems, and the rapidly aging society. Additionally, they are responsible for saving human lives from natural disasters. They make use of their knowledge not only in architecture but also in other fields such as mechanical engineering and information technology.

To develop engineers who can accomplish these missions, the architecture course aims to nurture practical engineers who:

- Recognize the relationship between architecture and society, and contribute to safe, comfortable and attractive living environments.
- Deal with current social issues such as urban problems, environmental problems and aging society problems.
- Acquire knowledge related to architecture and engineering in order to apply it to community needs.

Therefore, this course welcomes students with the following qualities.

1) Students who are interested in studying various academic fields including social science and fine arts, as well as mathematics and science.
2) Students who are interested in house building and community planning.
3) Students who are willing to contribute to society through architecture.

Educational Purposes

1) To develop engineers with both basic academic knowledge and technical skills related to architecture.
2) To develop practical engineers who recognize the relationship between architecture and society, and contribute to safe, comfortable and attractive living environments.
3) To develop engineers who acquire knowledge of architecture and engineering, and respond to the needs of communities including urban problems.

Educational Personnel

Title	Name	Subjects	Research Fields
Professor Ph.D.	MATSUNO, Tetsuya	Electromagnetism, Control Engineering I/II	Computational Physics
Professor Ph.D.	MATSUMURA, Kotaro	Structural Mechanics I/II, Experiment of Building Materials	Structural Engineering, Snow and Ice
Professor Ph.D.	YANAGIHARA, Kiyoshi	Engineering Ehics, Measurement and Control I/II/III, Mechanical Dynamics	Measurement and control Engineering
Professor Ph.D.	MATSUNO, Yoshinobu	Basic Engineering I/II, Information Networks	Information Network Engineering
Professor Ph.D.	KATO, Manabu	Information Literacy II, Algorithms and Data Structures I/II	Information Network Engineering
Professor Ph.D.	TSUBONE, Hiroaki	Hydraulics, Fluid Engineering	Fluid Engineering
Professor Ph.D.	GAUTHIER LOVIC ERIC	Computer Architecture I/II, Signal Processing	Computer Architecture
Professor Ph.D.	IWASHITA, Tsutomu	Steel Structures I/II, Architectural Experiment Training and Practice	Structural Engineering
Professor Ph.D.	SHIMODA, Seiya	Building Materials I/II, Architectural Experiment Training and Practice	Building Material
Professor Ph.D.	HARA, Takeshi	Electric Circuits I/II, Semiconductor Engineering	Electronic Materials Engineering
Professor Ph.D.	ISHIKAWA, Yohei	Electronic Circuits I/II, Cricuit Design	Electronic Circuits
Professor Ph.D.	IWAMOTO, Tatsuya	Mechanical Basic Design I, Strength of Materials I/II/III	Strength of Materials
Professor Ph.D.	SHINOZAKI, Akira	Basic Engineering III, Basic Manufacturing I	Precision Manufacturing
Associate Professor Ph.D.	SAKAMOTO, Takeshi	Mechanism and Elements, Mechanical Shop Creative Practice	Precision Manufacturing
Associate Professor Ph.D.	MORIYAMA, Hideaki	Operating System, Software Engineering	System Software
Associate Professor Ph.D.	MASAKI, Tetsu	Architectural Planning I/II, Architectural Design and Drawing III/IV/V	Architectural Planning
Associate Professor Ph.D.	INO, Takuichiro	Thermodynamics, Numerical Computation	Computational Mechanics
Associate Professor Ph.D.	NOGUCHI, Takuro	Logic Circuits, Electronic Circuit II	Electronic Circuits
Lecturer Ph.D.	FUJIWARA, Hitomi	Social Services for the Elderly, Architectural Design and Drawing II/III	Architectural Planning
Lecturer Ph.D.	KUBOTA, Masaki	Architectural Environmental Engineering I/II, Building Equipment I/II	Architectural Environmental Engineering
Assistant Professor Ph.D.	MORITA, Kentaro	Building Construction, Architectural Design and Drawing II/IV	City Planning
Assistant Professor M.S.	SADOHARA, Yohei	City Planning, Architectural Design and Drawing I/II/IV	City Plannning
Assistant Professor Ph.D.	TAKAGI, Makiko	History of Japanese Architecture, History of European Architecture, Architectural Design and Drawing III	History of Modern Architecture
Assistant Professor Ph.D.	TOKUNO, Shosi	Basic Mechatronics I and II Production System Engineering	Robotics
Professor Ph.D.	SUGANUMA, Akira	Numerical Computation I/II, Compiler	Software Engineering
Professor Ph.D.	EGASHIRA, Naruto	Control Engineering I/II	Automatic Control
Associate Professor Ph.D.	MORI, Shintaro	Electronics Experiment I, Information Theory I/II	Optical Waveguide

Part-time Instructors

Name	Subjects	Notes
YOSHIDA, Masamichi	Mechanical System Elements, Introduction to Thermo Dynamics, Basic Manufacturing II	Prof. Emeritus, Ariake Kosen
MINAMI, Akihiro	Materials I-III, Melting and Fusion Processing, Experiments in Engineering III, Basic Mechanics of Plasticity	Prof. Emeritus, Ariake Kosen
SASAKI, Shin-ichi	Communication Engineering	Former Associate Professor, Saga Univ.
KONDO, Kazuki	Database	ASK project
OSHIO, Yuki	Artificial Intelligence	ASK project
NAKAMURA, Takashi	Building Production, Building Materials and Production Management Systems Engineering	PD SYSTEM
INOUE, Takaaki	Architectural Design and Drawing IV, Building Code	Miyako – Inoue Architectural Office
HOSHIDA, Ayumu	Architectural Design and Drawing II	Scalla Architect
AOTA, Tatsuaki	Architectural Design and Drawing V	Aota-Tatsuaki Architectural Office

Curriculum (Mechanics Course)

Applicable to students enrolled from AY 2024 onward

Subjects			Number of Credits	Number of Credits by Grades					Notes
				1st	2nd	3rd	4th	5th	
Required Subjects	Basic Engineering	Basic Engineering I	1	1					General Education
		Basic Engineering II	1	1					General Education
		Basic Engineering III	1		1				General Education
		Drawing	1	1					General Education
		Information Literacy I	2	2					General Education
		Information Literacy II	1		1				General Education
		Experiments and Exercises in Creative Engineering	1	1					General Education
		Local Community Analysis	1		1				General Education
		Introduction to Entrepreneurship	1		1				General Education
		Exercises on Engineering	1			1			General Education
		Basic Exercise for Engineering	1		1				General Education
		Creative Practice for Engineering	1			1			
		Applied Physics	4			4			General Education
		Applied Mathematics I	2				2		General Education
		Applied Mathematics II	1				1		General Education
		Engineering Ethics	1					1	General Education・1credit=30h (Class)+15h (Self-study)
	Human and Welfare Engineering	Social Services for the Elderly	1			1			Division-wide
		Human Welfare Engineering	1				1		Division-wide・1credit=30h (Class)+15h (Self-study)
		Basic Exercise for Creative design	1				1		Division-wide・1credit=30h (Class)+15h (Self-study)
		Information Welfare Engineering	1					1	Division-wide・1credit=30h (Class)+15h (Self-study)
	Specialized Subjects	Mechanical Basic Design I	2		2				
		Mechanical Basic Design II	3			3			
		Basic Manufacturing I	2		2				
		Basic Manufacturing II	3			3			
		Mechanism and Elements	2			2			
		Materials I	1			1			
		Strength of Materials I	2			2			
		Thermodynamics	2				2		1credit=15h (Class)+30h (Self-study)
		Hydraulics	2				2		1credit=15h (Class)+30h (Self-study)
		Measurement and Control I	1				1		
		Basic Mechatronics I	1				1		
	Structure and Dynamics	Materials II	2				2		1credit=15h (Class)+30h (Self-study)
		Materials III	1				1		1credit=30h (Class)+15h (Self-study)
		Strength of Materials II	2				2		1credit=15h (Class)+30h (Self-study)
		Strength of Materials III	2				2		1credit=15h (Class)+30h (Self-study)
		Design of Machine Elements	2				2		1credit=15h (Class)+30h (Self-study)
		Mechanical Dynamics	2					2	1credit=15h (Class)+30h (Self-study)
		Fluid Dynamics	1					1	1credit=30h (Class)+15h (Self-study)
		Basic Mechanics of Plasticity	2					2	1credit=15h (Class)+30h (Self-study)
	Working	Precision Manufacturing	2			2			
		Melting and Fusion Processing	2					2	1credit=15h (Class)+30h (Self-study)
	Control	Basic Mechatronics II	1				1		
		Computer Engineering	1				1		
		Numerical Computation	1					1	1credit=30h (Class)+15h (Self-study)
		Measurement and Control II	1				1		1credit=30h (Class)+15h (Self-study)
		Measurement and Control III	2					2	1credit=15h (Class)+30h (Self-study)
	Composition	Exercise for Creative Design I	2				2		1credit=45h (Class)+0h (Self-study)
		Exercise for Creative Design II	3					3	
		Experiments in Engineering I	1				1		1credit=45h (Class)+0h (Self-study)
		Experiments in Engineering II	1				1		1credit=45h (Class)+0h (Self-study)
		Experiments in Engineering III	2					2	1credit=45h (Class)+0h (Self-study)
	Graduation Research	Graduation Research I	3				3		
		Graduation Research II	9					9	
	Subtotal		91	6	9	20	30	26	
Elective Subjects	Basic Exercise	Technical English	1					1	1credit=30h (Class)+15h (Self-study)
	Energy	Heat Transfer Engineering	1					1	1credit=30h (Class)+15h (Self-study)
		Fluid Engineering	2					2	1credit=15h (Class)+30h (Self-study)
		Electrical-Electronics Engineering I	1					1	1credit=30h (Class)+15h (Self-study)
		Electrical-Electronics Engineering II	1					1	1credit=30h (Class)+15h (Self-study)
	Mechanical Engineering	Applied Mechatronics	2					2	Select 2 from 4 1credit=15h (Class)+30h (Self-study)
		Systems and Control Engineering	2					2	
		Internal Combustion Engine	2					2	
		Production System Engineering	2					2	
	Subtotal		14	0	0	0	0	14	
Total of Credits Offered			105	6	9	20	30	40	
Earnable Credit			101	6	9	20	30	36	
Non-classroom subjects		Extramural Practice	1(2)				1(2)		
		Special Lecture	1				1		
		Credits granted for external certificates (Major Subjects) I	1	Course registration rules: Specified separately					
		Credits granted for external certificates (Major Subjects) II	2						
		Credits granted for external certificates (Major Subjects) III	3						
		Credits granted for external certificates (Major Subjects) IV	4						
		Subjects offered at other KOSEN and universities (Major Subjects)	Number of Credits Earned at Other College of Technologies or Universities						Course registration rules: Specified separately

Curriculum (Information System Course)

Applicable to students enrolled from AY 2024 onward

Subjects			Number of Credits	Number of Credits by Grades					Notes
				1st	2nd	3rd	4th	5th	
Required Subjects	Basic Engineering	Basic Engineering I	1	1					General Education
		Basic Engineering II	1	1					General Education
		Basic Engineering III	1		1				General Education
		Drawing	1	1					General Education
		Information Literacy I	2	2					General Education
		Information Literacy II	1		1				General Education
		Experiments and Exercises in Creative Engineering	1	1					General Education
		Local Community Analysis	1		1				General Education
		Introduction to Entrepreneurship	1		1				General Education
		Exercises on Engineering	1			1			General Education
		Basic Exercise for Engineering	1		1				General Education
		Creative Practice for Engineering	1			1			
		Applied Physics	4			4			General Education
		Applied Mathematics I	2				2		General Education
		Applied Mathematics II	1				1		General Education
		Engineering Ethics	1					1	General Education・1credit=30h (Class)+15h (Self-study)
	Human and Welfare Engineering	Social Services for the Elderly	1			1			Division-wide
		Human Welfare Engineering	1				1		Division-wide・1credit=30h (Class)+15h (Self-study)
		Basic Exercise for Creative design	1				1		Division-wide・1credit=30h (Class)+15h (Self-study)
		Information Welfare Engineering	1					1	Division-wide・1credit=30h (Class)+15h (Self-study)
	Information Engineering	Programming I	1		1				
		Programming II	2			2			
		Algorithms and Data Structures I	1				1		1credit=30h (Class)+15h (Self-study)
		Algorithms and Data Structures II	1				1		1credit=30h (Class)+15h (Self-study)
		Discrete Mathematics I	1				1		1credit=30h (Class)+15h (Self-study)
		Discrete Mathematics II	1				1		1credit=30h (Class)+15h (Self-study)
		Numerical Computation I	1				1		1credit=30h (Class)+15h (Self-study)
		System Programming	2					2	1credit=15h (Class)+30h (Self-study)
		Information Systems Exercises I	1		1				
		Information Systems Exercises II	2			2			
		Information Systems Exercises III	1				1		
		Information Systems Exercises IV	1				1		
	Electronics	Fundamental Electric and Electronic Engineering	1		1				
		Electric and Electronic Exercises	1		1				
		Logic Circuits	2			2			
		Electric Circuits I	2			2			
		Electric Circuits II	1				1		1credit=30h (Class)+15h (Self-study)
		Electronic Circuits I	2				2		1credit=15h (Class)+30h (Self-study)
		Electronic Circuits II	1				1		1credit=30h (Class)+15h (Self-study)
		Semiconductor Engineering	2				2		1credit=15h (Class)+30h (Self-study)
		Electronics Experiment I	3			3			
		Electronics Experiment II	1				1		1credit=45h (Class)+0h (Self-study)
		Electronics Experiment III	1				1		1credit=45h (Class)+0h (Self-study)
		Electromagnetism	2					2	1credit=15h (Class)+30h (Self-study)
	System Engineering	Information Processing Systems	1			1			
		Computer Architecture I	1				1		1credit=30h (Class)+15h (Self-study)
		Computer Architecture II	1				1		1credit=30h (Class)+15h (Self-study)
		Information Networks	2				2		1credit=15h (Class)+30h (Self-study)
		Embedded System Experiment I	1					1	1credit=45h (Class)+0h (Self-study)
		Embedded System Experiment II	1					1	1credit=45h (Class)+0h (Self-study)
	Graduation Research	Graduation Research I	2				2		
		Graduation Research II	8					8	
	Subtotal		76	6	9	19	26	16	
Elective Subjects	Information Engineering	Compiler	2					2	1credit=15h (Class)+30h (Self-study)
		Software Engineering	2					2	1credit=15h (Class)+30h (Self-study)
		Signal Processing	2					2	1credit=15h (Class)+30h (Self-study)
		Database	2					2	1credit=15h (Class)+30h (Self-study)
		Artificial Intelligence	2					2	1credit=15h (Class)+30h (Self-study)
		Information Theory I	1					1	1credit=30h (Class)+15h (Self-study)
		Information Theory II	1					1	1credit=30h (Class)+15h (Self-study)
		Numerical Computation II	1					1	1credit=30h (Class)+15h (Self-study)
	System Engineering	Control Engineering I	1					1	1credit=30h (Class)+15h (Self-study)
		Control Engineering II	1					1	1credit=30h (Class)+15h (Self-study)
		Communication Engineering	2					2	1credit=15h (Class)+30h (Self-study)
	Subtotal		17	0	0	0	0	17	
Total of Credits Offered			93	6	9	19	26	33	
Earnable Credit			93	6	9	19	26	33	
Non-classroom subjects		Extramural Practice	1(2)				1(2)		
		Special Lecture	1				1		
		Credits granted for external certificates (Major Subjects) I	1	Course registration rules: Specified separately					
		Credits granted for external certificates (Major Subjects) II	2						
		Credits granted for external certificates (Major Subjects) III	3						
		Credits granted for external certificates (Major Subjects) IV	4						
		Subjects offered at other KOSEN and universities (Major Subjects)	Number of Credits Earned at Other College of Technologies or Universities						Course registration rules: Specified separately

Curriculum (Architecture Course)

Applicable to students enrolled from AY 2025 onward.

Subjects			Number of Credits	Number of Credits by Grades					Notes
				1st	2nd	3rd	4th	5th	
Required Subjects	Basic Subjects	Basic Engineering I	1	1					General Education
		Basic Engineering II	1	1					General Education
		Basic Engineering III	1		1				General Education
		Drawing	1	1					General Education
		Information Literacy I	2	2					General Education
		Information Literacy II	1		1				General Education
		Experiments and Exercises in Creative Engineering	1	1					General Education
		Local Community Analysis	1		1				General Education
		Introduction to Entrepreneurship	1		1				General Education
		Exercises on Engineering	1			1			General Education
		Basic Exercise for Engineering	1		1				General Education
		Creative Practice for Engineering	1			1			
		Applied Physics	4			4			General Education
		Applied Mathematics I	2				2		General Education
		Applied Mathematics II	1				1		General Education
		Engineering Ethics	1					1	General Education・1credit=30h (Class)+15h (Self-study)
	Human and Welfare Engineering	Social Services for the Elderly	1			1			Division-wide
		Human Welfare Engineering	1				1		Division-wide・1credit=30h (Class)+15h (Self-study)
		Basic Exercise for Creative design	1				1		Division-wide・1credit=30h (Class)+15h (Self-study)
		Information Welfare Engineering	1					1	Division-wide・1credit=30h (Class)+15h (Self-study)
	Planning	Dwelling Environmental Planning	1			1			
		Architectural Planning I	1			1			
		Architectural Planning II	2				2		1credit=15h (Class)+30h (Self-study)
		Welfare Environment Planning	2					2	1credit=15h (Class)+30h (Self-study)
		History of Japanese Architecture	1			1			
		History of European Architecture	1				1		1credit=30h (Class)+15h (Self-study)
		City Planning	1				1		1credit=30h (Class)+15h (Self-study)
		History of Modern Architecture	1					1	1credit=30h (Class)+15h (Self-study)
	Environment	Environmental Engineering in Architecture I	2			2			
		Environmental Engineering in Architecture II	2				2		1credit=15h (Class)+30h (Self-study)
		Building Environment I	2					2	1credit=15h (Class)+30h (Self-study)
		Building Environment II	1					1	1credit=30h (Class)+15h (Self-study)
	Structure	Structural Mechanics I	2			2			
		Structural Mechanics II	2				2		1credit=15h (Class)+30h (Self-study)
		Structural Mechanics III	2				2		1credit=15h (Class)+30h (Self-study)
		Strength of Materials	1			1			
		Reinforced Concrete Structure I	1				1		1credit=30h (Class)+15h (Self-study)
		Reinforced Concrete Structure II	1				1		1credit=30h (Class)+15h (Self-study)
		Steel Structures I	1				1		1credit=30h (Class)+15h (Self-study)
		Steel Structures II	1				1		1credit=30h (Class)+15h (Self-study)
		Structural Design	1					1	1credit=30h (Class)+15h (Self-study)
		Structural Dynamics	1					1	1credit=30h (Class)+15h (Self-study)
		Foundation Structures	1					1	1credit=30h (Class)+15h (Self-study)
	Production	Building Construction	1		1				
		Building Materials I	1			1			
		Building Materials II	1				1		1credit=30h (Class)+15h (Self-study)
		Building Production	2					2	1credit=15h (Class)+30h (Self-study)
		Building Code	2					2	1credit=15h (Class)+30h (Self-study)
	Experiment	Experiment of Building Materials	1				1		1credit=45h (Class)+0h (Self-study)
		Architectural Experiment and Practice	1					1	1credit=45h (Class)+0h (Self-study)
	Design	Architectural Design and Drawing I	2		2				
		Architectural Design and Drawing II	3			3			
		Architectural Design and Drawing III	3				3		1credit=30h (Class)+15h (Self-study)
		Architectural Design and Drawing IV	3				3		1credit=30h (Class)+15h (Self-study)
	Composition	Graduation Design	4					4	Select 1 from 3
		Exercises in Building Environment Design	4					4	
		Exercises in Structural Design	4					4	
	Graduation Research	Graduation Research I	1				1		
		Graduation Research II	8					8	
	Subtotal		97	6	8	19	28	36	
Elective Subjects	Planning	Spatial Design	1		1				
		Urban Design	1					1	1credit=30h (Class)+15h (Self-study)
		Universal Design	1					1	1credit=30h (Class)+15h (Self-study)
	Design	Architectural Design and Drawing V	2					2	1credit=30h (Class)+15h (Self-study)
	Subtotal		5	0	1	0	0	4	
Total of Credits Offered			102	6	9	19	28	40	
Earnable Credit			94	6	9	19	28	32	
Non-classroom subjects		Extramural Practice	1(2)				1(2)		
		Special Lecture	1				1		
		Credits granted for external certificates (Major Subjects) I	1	Course registration rules: Specified separately					
		Credits granted for external certificates (Major Subjects) II	2						
		Credits granted for external certificates (Major Subjects) III	3						
		Credits granted for external certificates (Major Subjects) IV	4						
		Subjects offered at other KOSEN and universities (Major Subjects)	Number of Credits Earned at Other College of Technologies or Universities						Course registration rules: Specified separately

Department of General Education



▲Literature I Class



▲English Class at Language Lab

The major aim of colleges of technology is to prepare students to be competent engineers who have a wide perspective and highly advanced skills. Through its various subjects, the Department of General Education helps students gain a basic knowledge of technology, cultivate their mind, and develop their physical strength, so that they will grow up to be capable prospective workers.

In the course of their 5-year education, various subjects (from high school level to sophomore college level) are taught. Teachers provide lessons in Japanese, social studies, foreign languages, physical education, mathematics, physics and chemistry, making every possible effort to help students acquire basic knowledge and competence which will be indispensable for their future career.

Educational Personnel

Title	Name	Subjects	Research Fields
Lecturer Ph.D.	FUJISAKI, Yuji	Literature I, Lecture on Literature I/II Literature II, Japanese Communication	Early Japanese Literature
Lecturer M.A.	YAMADA, Takaaki		Japanese Linguistics
Professor M.A.	TANIGUCHI, Mitsuo	HistoryI/II, Modern and Contemporary Society II, Social Science	Medieval Irish History
Assistant Professor Ph.D.	TAKEMOTO, Hitomi	Geography, Modern and Contemporary Society II, Environmental Science, Global Environment	Physical Geography
Assistant Professor Ph.D.	FUJIWARA, Takuhiro	Modern and Contemporary Society I/II, Human Science, International Cultures	Political Philosophy
Professor M.A.	MITO, Kenji	English I/II/III/IV, English A/B, English Communication I/II, General Technical English, English Special Lecture, Practical English	English Linguistics
Professor Ph.D.	MURATA, Kazuho		English Philology
Professor M.A.	GRUMBINE RICHARD THOMAS		Teaching English as a Second Language, Philosophy
Professor M.A.	YAMASAKI, Eiji		American Literature
Assistant Professor M.A.	SHIMOKAWA, Ryota		Applied Linguistics
Associate Professor M.S.	NOGUCHI, Yoshiaki	Health and Physical Education	Physical Education

Educational Personnel

Title	Name	Subjects	Research Fields
Lecturer M.A.	IRIBE, Yuka	Health and Physical Education	Exercise Physiology
Professor Ph.D.	NISHIYAMA, Harutoshi	Fundamental Analysis, Fundamental Mathematics, Analysis I/II, Algebra and Geometry I/II, Statistics, Applied Mathematics I/II, Computer Literacy I	Mathematical Statistics
Professor Ph.D.	TANAKA, Akinori		Statistical Physics
Associate Professor Ph.D.	TAKAMOTO, Masahiro		Statistical Physics
Associate Professor Ph.D.	AOKAGE, Kazuya		Algebra
Associate Professor Ph.D.	TABATA, Ryo		Analysis
Assistant Professor M.S.	TAKABAYASHI, Yuuma		Analysis , Mathematical Physics
Professor Ph.D.	KATO, Naoko		Software Engineering
Professor Ph.D.	MATSUO, Akihiro	Chemistry I/II, Basic Science	Chemistry
Associate Professor Ph.D.	FURUKAWA, Kazuki		Chemistry
Professor Ph.D.	SAKAI, Takeshi	Fundamental Physics, Applied Physics	Solid State Physics
Professor Ph.D.	TAKEUCHI, Norio		Plasma Physics
Associate Professor Ph.D.	SAMESHIMA, Tomoko		Non Linear Physics
Professor Ph.D.	MURAOKA, Yoshinori	Fundamental Analysis, Analysis I/II, Statistics, Fourier Analysis	Statistical Physics

Part-time Instructors

Name	Subjects	Notes
MIYAKE, Kazumi	Arts A (Music)	Council for Omuta-shi culture art promotion committee
TANOUE, Rina	Arts B (Fine Arts)	
OKA, Noriko	English I, English Communication A	Part-time Instructor of High School
SATO, Kayoko	English II, IV	Part-time Instructor of High School
Pashley James Edward	English II	
TERADA, Yoshika	English III	
ABO, Hiroshi	Literature III	Prof. Emeritus, Gunma Prefectural Women's University
INOUE, Akiko	Fundamental Mathematics	Part-time Instructor of High School
MIZUMOTO, Yo	Analysis II, Applied Mathematics II	Lecturer of C.R.S
FUJIYOSHI, Yoko	Physical Education II, Physical Education A/B	Part-time Instructor of Junior High School
INOUE, Hitoshi	Health Education, Physical Education I /A/B	Prof. Emeritus, Ariake Kosen
SHIMOYAMA, Mayumi	Japanese Communication, Japanese	Part-time Instructor of Other University
LIU, Jianing	Second Foreign Languages	

Curriculum (General Education)

Subjects			Number of Credits	Number of Credits by Grades					Notes	
				1st	2nd	3rd	4th	5th		
Required Subjects	Japanese	Literature I	2	2						
		Literature II	2		2					
		Literature III	2			2			Offered for domestic students	
		Japanese							Offered for international students	
		Japanese Communication	2				2			
	Mathematics	Fundamental Analysis	4	4						
		Fundamental Mathematics	2	2						
		Analysis I	4		4					
		Analysis II	4			4				
		Algebra and Geometry I	2		2					
		Algebra and Geometry II	1			1				
		Statistics	1			1				
	Science	Fundamental Physics I	2	2						
		Fundamental Physics II	2		2					
		Basic Science	2	2						
		Chemistry I	2	2						
		Chemistry II	2		2					
	Social Studies	Geography	2	2						
		History I	2		2					
		Modern and Contemporary Society I	2		2					
		Modern and Contemporary Society II	2			2			Offered for domestic students	
		Japanese Culture and Affairs							Offered for international students	
	Physical Education	Health Education	2	2						
		Physical Education I	2	2						
		Physical Education II	2		2					
	Foreign Languages	English I	4	4						
		English II	2	2						
		English III	4		4					
		English IV	2		2					
		English Communication A	2			2				
		English Communication B	2			2				
		English A	2				2			
		English B	2				2			
	Subtotal		70	26	24	14	6	0		
Elective Subjects	Arts	Arts A	1	1						
		Arts B	1	1						
	Physical Education	Physical Education III	2			2			Practical skills	
	General Elective subject Offered in Parallel: Japanese	Japanese Composition I	2				2		1credit=15h (Class)+30h (Self-study)	Humanities and Social Sciences ＊1
		Japanese Composition II	2				2		1credit=15h (Class)+30h (Self-study)	
		Lecture on Literature I	2				2		1credit=15h (Class)+30h (Self-study)	
		Lecture on Literature II	2				2		1credit=15h (Class)+30h (Self-study)	
	General Elective subject Offered in Parallel: Social Studies	Social Science	2				2		1credit=15h (Class)+30h (Self-study)	
		History II	2				2		1credit=15h (Class)+30h (Self-study)	
		Human Science	2				2		1credit=15h (Class)+30h (Self-study)	
		International Cultures	2				2		1credit=15h (Class)+30h (Self-study)	
		Environmental Science	2				2		1credit=15h (Class)+30h (Self-study)	
		Global Environment	2				2		1credit=15h (Class)+30h (Self-study)	
	General Elective subject Offered in Parallel: Foreign Languages	English Communication I	2				2		1credit=15h (Class)+30h (Self-study)	
		English Communication II	2				2		1credit=15h (Class)+30h (Self-study)	
		Second Foreign Languages	2				2		1credit=15h (Class)+30h (Self-study)	
		Technical English	2				2		1credit=15h (Class)+30h (Self-study)	
	General Elective subject Offered in Parallel: Mathematics	Topics in Mathematics (Basic)	2				2		1credit=15h (Class)+30h (Self-study)	Science ＊2
		Topics in Mathematics (Advanced)	2				2		1credit=15h (Class)+30h (Self-study)	
		Topics in Algebra	2				2		1credit=15h (Class)+30h (Self-study)	
		Complex Analysis	2				2		1credit=15h (Class)+30h (Self-study)	
		Vector Analysis	2				2		1credit=15h (Class)+30h (Self-study)	
		Fourier Analysis	2				2		1credit=15h (Class)+30h (Self-study)	
	General Elective subject Offered in Parallel: Science	Advanced course in Physics	2				2		1credit=15h (Class)+30h (Self-study)	
		Advanced course in Chemistry	2				2		1credit=15h (Class)+30h (Self-study)	
	General Elective subject Offered in Parallel: Physical Education	Physical Education A	1				1			
		Physical Education B	1				1			
	Subtotal		50	2	0	2	46			
Total of Credits Offered			120	28	24	16	52			
Earnable Credit			90	28	24	16	22			
Non-classroom subjects		Credits granted for external certificates (General Subjects) I	1	Course registration rules: Specified separately						
		Credits granted for external certificates (General Subjects) II	2							
		Credits granted for external certificates (General Subjects) III	3							
		Subjects offered at other KOSEN and universities (General Subjects)	Number of Credits Earned at Other College of Technologies or Universities						Course registration rules: Specified separately	

＊1　Up to 4 subjects (max. 8 credits) may be selected from 14 subjects in the 4th and 5th years.
＊2　Up to 4 subjects (max. 8 credits) may be selected from 10 subjects in the 4th and 5th years.

Advanced Engineering Course



▲Advanced Experiments Combination
(with Interns from Thailand)



▲Practice of Creative Design in Interdisciplinary Teams

Our Advanced Engineering Course aims to nurture, through our two-year engineering education of graduates mainly from colleges of technology, highly educated practical professional engineers full of creativity, diversity, interdisciplinary skills and internationalism who have the ability of playing a leading role in the 21st century age of highly advanced science, technology and information. Our college has three courses: the Advanced Production and Information Systems Engineering Course, which is closely related to mechanical engineering, electrical engineering, and electronics and information engineering; the Advanced Chemical Science and Engineering Course, which is closely related to chemical science and engineering, and biological engineering; and the Advanced Architecture Course.

Students who have passed through one of these courses are at the same time able to receive a bachelor's degree in engineering from the National Institution for Academic Degrees.

Three Policies

[Diploma Policy (DP): Policy on certifying graduation]

A certificate of completion will be awarded to those who have completed the entire course of study in the major, with the aim of fostering highly creative, diverse, interdisciplinary, and internationally-minded practical professional engineers as escribed below

1) Advanced engineers with the ability to consider things from multiple perspectives, a high sense of ethics to be aware of the responsibilities of engineers in society, and excellent communication skills
2) Highly-skilled engineers with basic knowledge of engineering, specialized knowledge of engineering, and highly-integrated interdisciplinary knowledge with practical skills
3) Highly-skilled engineers who have an excellent ability to explore issues and propose solutions to them

Advanced Production and Information Systems Engineering Course

The ability to think logically and resolve the issues of an advanced science and technology society and international energy and environmental problems; to address such issues with integrated, interdisciplinary specialist knowledge founded on the fundamentals of mechanical, electrical, and information engineering; and to act on one's own initiative with a strong sense of ethics, a broad perspective, and an international outlook.

Advanced Chemical Science and Engineering Course

The ability to apply knowledge and skills that keep pace with advances in chemical technology and biotechnology to the development and manufacture of chemical products, materials, foods, pharmaceuticals, and the like; to practice environmentally conscious "monozukuri" (manufacturing) by drawing on foundational and specialized academic ability and interdisciplinary knowledge; and to identify accurately the needs and seeds of industrial production activity and act on one's own initiative with an international outlook.

Advanced Architecture Course

Advanced practical skills with an emphasis on either planning and environment or structure and production; the practical technical judgment to grasp problems in the field of architecture accurately, think about them logically, and lead them to resolution; and the flexibility and initiative to address issues in other fields as well as in architecture.

[Curriculum Policy (CP): Policy on the design and implementation of the curriculum]

To develop the people described in the Diploma Policy, the Advanced Engineering Course organizes and implements the curriculum of each of its courses according to the following distinctive policies.

Methods of Academic Assessment

(1) For subjects delivered in the "class" format, the degree to which learning outcomes have been achieved is assessed against each subject's attainment targets, using the results of the assessment methods specified for that subject, such as regular examinations, portfolios, and presentations.
(2) For subjects delivered in the "experiment and practical training" and "seminar" formats, the degree to which learning outcomes have been achieved is assessed against each subject's attainment targets, using the methods specified for that subject, such as presentations and portfolios.
(3) For the special research project, the degree to which learning outcomes have been achieved is assessed comprehensively against the attainment targets, taking into account the thesis presenting the research results, the research presentation, and the student's engagement with the work.

Grading and Criteria for the Award of Credit

Learning outcomes in each subject are assessed comprehensively using the assessment methods established in accordance with the "Methods of Academic Assessment."

The specific attainment targets and assessment methods for each subject are set out in the syllabus.

Grades are awarded either on a 100-point scale or on a pass/fail basis. Credit is granted for a score of 60 or above on the 100-point scale, or for a grade of "pass."

1) Subjects are provided to develop engineers with multifaceted powers of consideration and a strong sense of ethics.
2) Language subjects and subjects that train the relevant skills are provided so that students acquire excellent communication skills.
3) Basic subjects for engineering common to all courses are provided to develop engineers with a foundation of engineering knowledge.
4) Subjects are provided to develop engineers with specialized knowledge of engineering.
5) Composite and interdisciplinary subjects are provided across the three courses to develop engineers with interdisciplinary knowledge of engineering.
6) Subjects are provided to develop engineers with practical ability.
7) Practical training and seminar subjects are provided to develop the capacity for inquiry into problems and the design ability to address them.

Common to All Courses

(A-1) To develop students with multifaceted powers of consideration, the curriculum provides general humanities and social science subjects such as Lecture of English and Topics in Humanities and Social Studies. (CP1)

(A-2) To develop students with a strong sense of ethics, the curriculum provides environment-related subjects such as Introduction of Environmental Science, Environment Control Engineering, and Introduction to Environmental Engineering. (CP1)

(A-3) To develop students with excellent communication skills in Japanese and in foreign languages, the curriculum provides language subjects such as Practical English and Expressions in Japanese, together with subjects that call for the presentation of materials and accurate responses to questions, such as Practice of Creative Design in Interdisciplinary Teams and Thesis Research I and II. (CP2)

Advanced Production and Information Systems Engineering Course

(B-1) To develop students who have a foundation of engineering knowledge and can apply it in their own specialty, the curriculum provides basic subjects for engineering such as Applied Mathematics I and II and General Science, and fundamental engineering subjects such as Advanced Computer Literacy, Fundamentals of Industrial Mechanics, Material Science for Electronics, Design of Air-Conditioning, Digital Systems Design, and Materials Science. (CP3)

The Advanced Production and Information Systems Engineering Course enrolls students specializing in electrical and electronic engineering, mechanical engineering, and information engineering. (B-2) To develop students with the knowledge and skills of each specialist field, the curriculum provides field-specific subjects such as Introduction to Energy Conversion Engineering, Advanced Course of Algorithms, Circuit Design, Automatic Production Systems, Digital Control, Image Processing, Applied Electronic Circuits, Advanced Software Engineering, and Information Network Engineering. (CP4)

(B-4) To develop students who can apply interdisciplinary engineering knowledge within their specialty — that is, who can broaden their perspective and bring the knowledge and techniques of other fields to bear on their own — the curriculum provides, for students of electrical and electronic engineering, subjects such as Mechanical Systems Elements and Introduction to Information Networks; for students of mechanical engineering, Introduction to Electric Machinery and Introduction to Information Networks; for students of information engineering, Introduction to Mechatronics and Introduction to Electric Machinery; and, for all students, Molecular Biology, Introduction to Materials Engineering, and Universal Design. (CP5)

(B-3) To develop students with the practical ability to carry out work systematically and reliably, the curriculum provides practical subjects such as Advanced Experiments and Advanced Experiments Combination. (CP6)

(C-1) To develop students with the capacity for inquiry into a range of problems, the curriculum provides Advanced Extramural Practice I and II, Thesis Research I and II, Advanced Exercise for Design Fundamentals, and Advanced Exercise for Creative Designing. (CP7) (C-2) To develop students with the design ability and problem-solving ability to address a range of problems, the curriculum provides Thesis Research I and II, Practice of Creative Design in Interdisciplinary Teams, and Advanced Exercise for Creative Designing. (CP7)

Advanced Chemical Science and Engineering Course

(B-1) To develop students who have a foundation of engineering knowledge and can apply it in their own specialty, the curriculum provides basic subjects for engineering such as Applied Mathematics I and II and General Science, and fundamental engineering subjects such as Advanced Computer Literacy, Materials Science, and Fundamentals of Industrial Mechanics. (CP3)

The Advanced Chemical Science and Engineering Course enrolls students specializing in materials engineering and biological engineering. (B-2) To develop students with the knowledge and skills of each specialist field, the curriculum provides Synthetic Organic Chemistry, Applied Analytical Chemistry, Molecular Structure Analysis, Structures in Inorganic Chemistry, and Applied Chemical Engineering. (CP4)

(B-4) To develop students who can apply interdisciplinary engineering knowledge within their specialty — that is, who can broaden their perspective and bring the knowledge and techniques of other fields to bear on their own — the curriculum provides Topics in Community Collaboration, Introduction to Electrical and Electronic Engineering, Introduction to Thermodynamics, Introduction to Information Networks, and Universal Design. (CP5)

(B-3) To develop students with the practical ability to carry out work systematically and reliably, the curriculum provides practical subjects such as Advanced Exercises I and II and Advanced Experiments Combination. (CP6)

(C-1) To develop students with the capacity for inquiry into a range of problems, the curriculum provides Advanced Extramural Practice I and II and Thesis Research I and II. (CP7)

(C-2) To develop students with the design ability and problem-solving ability to address a range of problems, the curriculum provides Thesis Research I and II and Practice of Creative Design in Interdisciplinary Teams. (CP7)

Advanced Architecture Course

(B-1) To develop students who have a foundation of engineering knowledge and can apply it in their own specialty, the curriculum provides basic subjects for engineering such as Applied Mathematics I and II and General Science, and fundamental engineering subjects such as Advanced Computer Literacy and Materials Science. (CP3)

(B-2) To develop students with the knowledge and skills of the specialist field, the curriculum provides Disaster Prevention Systems Engineering, Urban and Space Design, Advanced Reinforced Concrete Structures, Urban Environment Management, Advanced Steel Structures, and Structural Article for Architecture. (CP4)

(B-4) To develop students who can apply interdisciplinary engineering knowledge within their specialty — that is, who can broaden their perspective and bring the knowledge and techniques of other fields to bear on their own — the curriculum provides Topics in Community Collaboration, Introduction to Electrical and Electronic Engineering, Introduction to Thermodynamics, Introduction to Information Networks, and Introduction to Materials Engineering. (CP5)

(B-3) To develop students with the practical ability to carry out work systematically and reliably, the curriculum provides practical subjects such as Advanced Experiments Combination. (CP6)

(C-1) To develop students with the capacity for inquiry into a range of problems, the curriculum provides Advanced Extramural Practice I and II, Thesis Research I and II, and Advanced Architectural Design and Drawing I and II. (CP7)

(C-2) To develop students with the design ability and problem-solving ability to address a range of problems, the curriculum provides Thesis Research I and II and Practice of Creative Design in Interdisciplinary Teams. (CP7)

[Admission Policy (AP): Eligibility requirements]

<Profile of a desirable student>

Our major aims to develop highly practical engineers for manufacturing who have acquired a rich culture, a wide range of specialized knowledge, an interdisciplinary and multidisciplinary perspective, a sense of ethics, creativity and practical skills. For this reason, we welcome the following people.

1) People with broad, fundamental engineering knowledge and independence
2) People who have advanced knowledge and creativity in specialized engineering and who have acquired practical skills
3) People who are capable of self-development and improvement, and who can contribute to the development of society through technology
4) People who understand diverse values and can play an active role in interdisciplinary fields
5) People with a broad perspective and education who can play an active role in the international community

We also welcome people who want to improve their careers while being active in the real world.

<Basic Policy for Admission>

There are three methods of selection for admission: <Selection by recommendation,> <Selection by recommendation (for working adults) ,> and <Selection by academic achievement.>

◇ Selection by recommendation

In the selection by recommendation, we select applicants who are expected to graduate from a technical college, who are recognized as having excellent academic records and character, who have an aptitude for our major, and who will be admitted if accepted. For the selection by recommendation, we will select applicants based on the recommendation letter and the survey submitted by the principal of the school in which the applicant is enrolled, the contents of the application form, and their TOEIC score. Basic knowledge in specialized and interdisciplinary fields will be comprehensively evaluated through a survey; the ability to play an active role in international society will be evaluated through TOEIC scores, a survey, and an application form; and independence, practical ability, and motivation for social development will be evaluated through a recommendation letter and an application form.

◇ Selection by recommendation (for working adults)

In the selection by recommendation (for working adults), students who have been employed by a company for one year or more at the time of application, and who are recommended by the head of the company or the principal of the school to which they belong as having excellent work performance, academic achievement, and character, and who have an aptitude for this major and will be admitted if accepted, are selected. For the selection by recommendation (for working adults), the applicant will be selected based on a combination of a letter of recommendation submitted by the head of the company to which the applicant belongs or the principal of the applicant's former school, a research paper, and an application form. Basic knowledge of specialized and interdisciplinary fields will be evaluated through a survey; the ability to play an active role in international society will be evaluated through TOEIC scores, a survey, and a application form; and independence, practical ability, and motivation for social development will be evaluated through a recommendation letter and an application form.

◇ Selection by academic achievement

In the selection by academic achievement test, we select students who have the necessary background, basic academic skills, and basic knowledge of their specialty to study this major course. The selection by academic achievement will be based on a comprehensive review of the applicant's academic achievement test results, the research report submitted by the principal of the applicant's home (enrolled) school, and the application form. The academic achievement test is a written test consisting of English (equivalent to TOEIC), mathematics, and specialized subjects. Basic knowledge of specialized and interdisciplinary fields will be comprehensively evaluated through a research paper and a written examination of specialized subjects, the ability to play an active role in international society will be evaluated through a written examination of English and mathematics, a research paper and an application form, and independence, practical ability, and motivation for social development will be evaluated through an application form.

Advanced Production and Information Systems Engineering Course

The aim of this course is to foster an understanding of basic subjects and research approaches in the fields of mechanical engineering, electrical engineering and electronics, and information engineering, thereby enhancing the research capability of students in these fields that are closely related to each other in recent technology. This course also aims to provide an opportunity for students to understand the interdisciplinary implications of their research, through experimental studies and interdisciplinary collaborations with universities and companies.

In this advanced engineering course, you will aim to further pursue the academic fields you have already studied in the five-year regular course. In addition, with a view to broadening your horizons, you should have a deeper understanding of technical engineering in general. The students who enter this advanced engineering course are expected:

1) To be motivated to explore their own disciplines after having studied one of the following three fields: mechanical engineering, electrical engineering and electronics and information engineering.
2) To be interested in studying various fields of engineering and interdisciplinary academic areas as well.
3) To be motivated to independently plan and pursue their projects within their academic scope, to be willing to make efforts to acquire real-world knowledge.

Educational Purposes

1) To develop practical engineers equipped with critical thinking skills that they can apply to high technology, global energy problems and environmental problems.
2) To develop practical engineers with interdisciplinary knowledge who studied technical subjects in the fields of mechanical, electrical and information engineering, based on fundamental knowledge in these fields in a five-year regular course.
3) To develop practical engineers equipped with high professional ethics, a wide view, and international mind.

Advanced Chemical Science and Engineering Course

In this advanced course, based on the fundamental knowledge received in the five-year curriculum, students will study highly advanced knowledge and expertise sufficient to deal with the progress of chemical technology and biotechnology. This course also aims to educate students to be chemical engineers with highly creative and analytic abilities and a wide range of interdis- ciplinary knowledge.

In this advanced course based on the fundamental knowledge acquired in the five-year regular course, students will aim to become engineers with highly-developed knowledge and skills to keep up with the progress of chemical technology and biotechnology. The students who enter this advanced engineering course are expected:

1) To be equipped with basic knowledge of natural science including chemistry and biology, and be able to apply it to phenomena in daily life.
2) To be motivated to acquire extensive expertise of interdisciplinary fields, ingenuity, and analytic ability.
3) To be equipped with a global vision and a high ethical sense.

Educational Purposes

1) To develop practical and innovative engineers with knowledge and skills in chemical engineering and biotechnology to be applied to development and production of chemical, materials, foods and medicine.
2) To develop practical engineers who can produce goods that conserve the natural environment, using basic and technical expertise and a wide range of interdisciplinary knowledge.
3) To develop practical engineers with an international mind and the ability to adequately grasp market needs and technical“seeds” in industrial production activities.

Advanced Architecture Course

The curriculum provides the students either of Planning and Environment of Architecture or of Structural Engineering and Production of Architecture with the subjects on advanced practical technology based on the basic knowledge acquired during the regular five-year course of Kosen. It also provides the opportunities for students to obtain wide interdisciplinary knowledge in advanced classes to train their ability to think logically and to obtain practical knowledge of technology through research, entry in design competitions, and training at companies. This will enable students to become proficient engineers with wide interdisciplinary and expert knowledge, and ability to create.

In this advanced course, based on the general and discipline-specific knowledge acquired during the five-year regular course, students will aim to become architectural engineers with high creativity and practical skills. The students who enter this advanced course are expected:

1) To be motivated to create superior and comfortable living spaces.
2) To have acquired basic knowledge of planning, structure and facilities in architecture.
3) To be interested in acquiring extensive interdisciplinary expertise and skills through design exercises, experiments and laboratory studies.

Educational Purposes

1) To develop students who have highly developed practical skills focusing on either planning / environment or structure / production.
2) To develop students who have the critical thinking and practical skills necessary to understand and solve diverse problems in architectural fields.
3) To develop students who have the qualities required to deal with issues within architecture and its related fields.

Curriculum (Advanced Engineering Course)

General Education

Subjects			Number of Credits	Number of Credits by Grades				Notes
				1st		2nd		
				1st Semester	2nd Semester	1st Semester	2nd Semester	
General Subjects	Required Subjects	Lecture of English	2	2				
		Practical English	2		2			
		Total of Credits on Required Subjects	4	2	2			
	Elective Subjects	Expressions in Japanese	2		2			
		Topics in Humanities and Social Studies	2		2			
		Total of Credits on Elective Subjects	4		4			
	Total of Credits Offered on General Subjects		8	2	6			
Basic Subjects for Engineering	Elective Subjects	Applied Mathematics I	2	2				
		Applied Mathematics II	2		2			
		General Science	2		2			
		Introduction of Environmental Science	2	2				
	Total of Credits Offered on Basic Subjects for Engineering		8	4	4			
Total of Credits Offered			16	6	10			
Subjects offered at other KOSEN and universities (General Subjects)			Number of Credits Earned at Other College of Technologies or Universities					Course registration rules: Specified separately

Advanced Production and Information Systems Engineering Course

Subjects			Number of Credits	Number of Credits by Grades				Notes
				1st		2nd		
				1st Semester	2nd Semester	1st Semester	2nd Semester	
Technical Subjects	Required Subjects	Thesis Research I	6	3	3			
		Thesis Research II	6			3	3	
		Advanced English for Engineers	2	2				
		Advanced Experiments Combination	1	1				
		Advanced Experiments	1		1			
		Advanced Exercise for Design Fundamentals	2	1	1			
		Advanced Exercise for Creative Designing	2			2		
		Practice of Creative Design in Interdisciplinary Teams	2		2			
		Advanced Extramural Practice I	2	2				The credits for this subject are included in the 2nd Semester.
		Total of Credits on Required Subjects	24	7	9	5	3	
	Elective Subjects	Basic Subjects: Dynamics and Design	2		2			Offered in the E and I divisions
		Basic Subjects: Materials Science	2				2	Offered in the M and I divisions.
		Basic Subjects: Advanced Computer Literacy	2	2				Offered in the E and M divisions.
		Basic Subjects: Design of Air-Conditioning	2			2		
		Basic Subjects: Environment Control Engineering	2			2		
		Basic Subjects: Introduction to Environmental Engineering	2			2		
		Basic Subjects: Subtotal	12	2	2	6	2	
		Interdisciplinary Subjects: Mechanical Systems Elements	2	2				Offered in the E and I divisions.
		Interdisciplinary Subjects: Introduction to Mechatronics	2		2			Offered in the E and I divisions.
		Interdisciplinary Subjects: Introduction to Thermo Dynamics	2			2		Offered in the I divisions.
		Interdisciplinary Subjects: Introduction to Electric Machinery	2				2	Offered in the M and I divisions.
		Interdisciplinary Subjects: Information System	2	2				Offered in the E and M divisions.
		Interdisciplinary Subjects: Introduction to Information Networks	2				2	Offered in the E and M divisions.
		Interdisciplinary Subjects: Introduction to Materials Engineering	2				2	
		Interdisciplinary Subjects: Molecular Biology	2				2	
		Interdisciplinary Subjects: Building Materials and Production Management Systems Engineering	2			2		
		Interdisciplinary Subjects: Universal Design	2				2	
		Interdisciplinary Subjects: Topics in Community Collaboration	1	1				Credits for these subjects are not included in the grade-wise credit totals shown in columns marked with an asterisk(*).
		Interdisciplinary Subjects: Exercise in Community Collaboration I	1	1				
		Interdisciplinary Subjects: Exercise in Community Collaboration II	1	1				
		Interdisciplinary Subjects: Advanced Extramural Practice II	1～6	1～6				
		Interdisciplinary Subjects: Subtotal	24～29	4	2	4	10	*
		Dicipline Specitic Subjects: Introduction to Energy Conversion Engineering	2		2			
		Dicipline Specitic Subjects: Applied Fluid Engineering	2		2			
		Dicipline Specitic Subjects: Engineering of Precision Manufacturing	2	2				
		Dicipline Specitic Subjects: Theory of Plastic Working	2			2		
		Dicipline Specitic Subjects: Automatic Production Systems	2				2	
		Dicipline Specitic Subjects: Mechanical System Control	2	2				
		Dicipline Specitic Subjects: Digital Control	2			2		
		Dicipline Specitic Subjects: Pulsed Power Engineering	2				2	
		Dicipline Specitic Subjects: Functional Devices	2			2		
		Dicipline Specitic Subjects: Image Processing	2			2		
		Dicipline Specitic Subjects: Advanced Power Electronics	2	2				
		Dicipline Specitic Subjects: Applied Electronic Circuits	2				2	
		Dicipline Specitic Subjects: Material Science for Electronics	2	2				
		Dicipline Specitic Subjects: Modeling for Information Processes	2		2			
		Dicipline Specitic Subjects: Digital Systems Design	2			2		
		Dicipline Specitic Subjects: Advanced Course of Algorithms	2	2				
		Dicipline Specitic Subjects: Advanced Software Engineering	2			2		
		Dicipline Specitic Subjects: Applied Information Engineering	2			2		
		Dicipline Specitic Subjects: Circuit Design	2		2			
		Dicipline Specitic Subjects: Information Network Engineering	2				2	
		Dicipline Specitic Subjects: Subtotal	40	10	8	14	8	
	Total of Credits on Elective Subjects		76～81	16	12	24	20	*
Total of Credits Offered on Technical Subjects			100～105	23	21	29	23	*
Total of Credits Offered on General Subjects			16	6	10			
Total of Credits Offered			116～121	29	31	29	23	*
Total of Credits Required			62 credits or more					
Subjects offered at other KOSEN and universities (Technical Subjects)			Number of Credits Earned at Other College of Technologies or Universities					Course registration rules: Specified separately

Advanced Chemical Science and Engineering Course

Subjects			Number of Credits	Number of Credits by Grades				Notes
				1st		2nd		
				1st Semester	2nd Semester	1st Semester	2nd Semester	
Technical Subjects	Required Subjects	Thesis Research I	6	3	3			
		Thesis Research II	6			3	3	
		Advanced Exercises for Engineers	2	1	1			
		Advanced Experiments Combination	1	1				
		Advanced Exercises I	1	1				
		Advanced Exercises II	1			1		
		Practice of Creative Design in Interdisciplinary Teams	2		2			
		Advanced Exercise for Creative Designing	2	1	1			
		Advanced Extramural Practice I	2	2				The credits for this subject are included in the 2nd Semester.
		Total of Credits on Required Subjects	23	7	9	4	3	
	Elective Subjects	Basic Subjects: Dynamics and Design	2		2			
		Basic Subjects: Materials Science	2				2	
		Basic Subjects: Advanced Computer Literacy	2	2				
		Basic Subjects: Design of Air-Conditioning	2			2		
		Basic Subjects: Environment Control Engineering	2			2		
		Basic Subjects: Introduction to Environmental Engineering	2			2		
		Basic Subjects: Subtotal	12	2	2	6	2	
		Interdisciplinary Subjects: Mechanical Systems Elements	2	2				
		Interdisciplinary Subjects: Introduction to Thermo Dynamics	2			2		
		Interdisciplinary Subjects: Introduction to Electrical and Electronic Engineering	2		2			
		Interdisciplinary Subjects: Information System	2	2				
		Interdisciplinary Subjects: Circuit Design	2		2			
		Interdisciplinary Subjects: Introduction to Information Networks	2				2	
		Interdisciplinary Subjects: Molecular Biology	2				2	
		Interdisciplinary Subjects: Building Materials and Production Management Systems Engineering	2			2		
		Interdisciplinary Subjects: Universal Design	2				2	
		Interdisciplinary Subjects: Topics in Community Collaboration	1	1				Credits for these subjects are not included in the grade-wise credit totals shown in columns marked with an asterisk(*).
		Interdisciplinary Subjects: Exercise in Community Collaboration I	1	1				
		Interdisciplinary Subjects: Exercise in Community Collaboration II	1	1				
		Interdisciplinary Subjects: Advanced Extramural Practice II	1～6	1～6				
		Interdisciplinary Subjects: Subtotal	22～27	4	4	4	6	*
		Discipline Specitic Subjects: Applied Physical Chemistry	2	2				
		Discipline Specitic Subjects: Structures in Inorganic Chemistry	2			2		
		Discipline Specitic Subjects: Synthetic Organic Chemistry	2	2				
		Discipline Specitic Subjects: Applied Analytical Chemistry	2		2			
		Discipline Specitic Subjects: Inorganic Material Chemistry	2			2		
		Discipline Specitic Subjects: Applied Chemical Engineering	2			2		
		Discipline Specitic Subjects: Biotechnology	2				2	
		Discipline Specitic Subjects: Environmental Bioengineering	2				2	
		Discipline Specitic Subjects: Molecular Structure Analysis	2		2			
		Discipline Specitic Subjects: Subtotal	18	4	4	6	4	
		Total of Credits on Elective Subjects	52～57	10	10	16	12	*
Total of Credits Offered on Technical Subjects			75～80	17	19	20	15	*
Total of Credits Offered on General Subjects			16	6	10			
Total of Credits Offered			91～96	23	29	20	15	*
Total of Credits Required			62 credits or more					
Subjects offered at other KOSEN and universities (Technical Subjects)			Number of Credits Earned at Other College of Technologies or Universities					Course registration rules: Specified separately

Advanced Architecture Course

Subjects			Number of Credits	Number of Credits by Grades				Notes
				1st		2nd		
				1st Semester	2nd Semester	1st Semester	2nd Semester	
Technical Subjects	Required Subjects	Thesis Research I	6	3	3			
		Thesis Research II	6			3	3	
		Advanced English for Engineers	2	2				
		Advanced Experiments Combination	1	1				
		Advanced Architectural Design and Drawing I	2	2				
		Advanced Architectural Design and Drawing II	2			2		
		Practice of Creative Design in Interdisciplinary Teams	2		2			
		Advanced Extramural Practice I	2	2				The credits for this subject are included in the 2nd Semester.
		Total of Credits on Required Subjects	23	8	7	5	3	
	Elective Subjects	Basic Subjects: Materials Science	2				2	
		Basic Subjects: Advanced Computer Literacy	2	2				
		Basic Subjects: Environment Control Engineering	2			2		
		Basic Subjects: Introduction to Environmental Engineering	2			2		
		Basic Subjects: Subtotal	8	2		4	2	
		Interdisciplinary Subjects: Mechanical Systems Elements	2	2				
		Interdisciplinary Subjects: Introduction to Thermo Dynamics	2			2		
		Interdisciplinary Subjects: Introduction to Electrical and Electronic Engineering	2		2			
		Interdisciplinary Subjects: Information System	2	2				
		Interdisciplinary Subjects: Circuit Design	2		2			
		Interdisciplinary Subjects: Introduction to Information Networks	2				2	
		Interdisciplinary Subjects: Introduction to Materials Engineering	2				2	
		Interdisciplinary Subjects: Molecular Biology	2				2	
		Interdisciplinary Subjects: Building Materials and Production Management Systems Engineering	2			2		
		Interdisciplinary Subjects: Topics in Community Collaboration	1	1				Credits for these subjects are not included in the grade-wise credit totals shown in columns marked with an asterisk(*).
		Interdisciplinary Subjects: Exercise in Community Collaboration I	1	1				
		Interdisciplinary Subjects: Exercise in Community Collaboration II	1	1				
		Interdisciplinary Subjects: Advanced Extramural Practice II	1～6	1～6				
		Interdisciplinary Subjects: Subtotal	22～27	4	4	4	6	*
		Discipline Specitic Subjects: Disaster Prevention Systems Engineering	2		2			
		Discipline Specitic Subjects: Planning of Community Housing	2	2				
		Discipline Specitic Subjects: Urban and Space Design	2		2			
		Discipline Specitic Subjects: Urban Environment Management	2			2		
		Discipline Specitic Subjects: History of Japanese Modernization Period Monuments	2			2		
		Discipline Specitic Subjects: Preservation and Reproduction Historic Buildings	2				2	
		Discipline Specitic Subjects: Advanced Structural Analysis	2	2				
		Discipline Specitic Subjects: Advanced Reinforced Concrete Structures	2		2			
		Discipline Specitic Subjects: Advanced Steel Structures	2				2	
		Discipline Specitic Subjects: Structural Article for Architecture	2			2		
		Discipline Specitic Subjects: Subtotal	20	4	6	6	4	
		Total of Credits on Elective Subjects	50～55	10	10	14	12	*
Total of Credits Offered on Technical Subjects			73～78	18	17	19	15	*
Total of Credits Offered on General Subjects			16	6	10			
Total of Credits Offered			89～94	24	27	19	15	*
Total of Credits Required			62 credits or more					
Subjects offered at other KOSEN and universities (Technical Subjects)			Number of Credits Earned at Other College of Technologies or Universities					Course registration rules: Specified separately

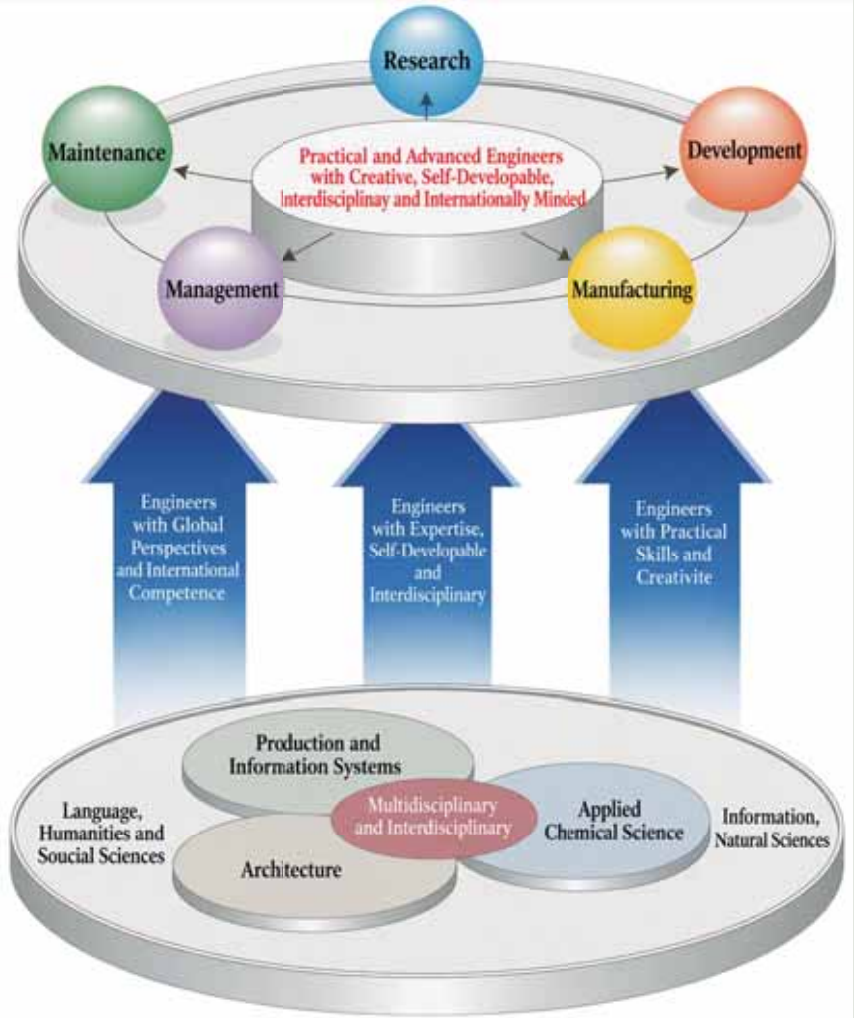
Production System Engineering Program

Along with the establishment of the Advanced Engineering Course in 2001, the Production System Engineering Program has been launched as an engineering education program for our four-year education for the upper grade students of the regular course and advanced course students. This program, with the aim of providing distinguished engineers who meet the diverse needs of society, is designed in harmony with our regular course education principle that our students should be educated to be technological engineers characterized by creativity, diversification, interdisciplinarity and internationality, on the basis of extensive knowledge of basic technology as well as high culture.

The Image of Engineers to Be Developed

This program aims to develop practical engineers in industrial production activities, including in mechanical, electrical, electronic and information, chemical science, and architectural engineering. They should be able to find out issues in their own fields and address them from multiple perspectives, with an emphasis on design and manufacturing. They should also be equipped with a good sense to synthesize discipline-specific knowledge and interdisciplinary knowledge. Another aim of the program is to foster engineers who are ready to be involved in developing technology friendly both to humans and the environment, and flexibly deal with the current problems of the environment, food supply and energy.

Completion of the Advanced Engineering Course is deemed to constitute completion of this program.



Engineers to be developed by the "Production System Engineering" Program

Information and Network Center

The Information and Network Center is the core organization responsible for ICT at the College, and comprises three offices: the Digital Transformation Office, the Cyber Security Office, and the System Administration Office. It provides integrated support ranging from the development of infrastructure such as the campus LAN system and educational computers through to literacy education, underpinning the advancement of education, research, and administration at the College.

Digital Transformation Office (DX Office)

The Digital Transformation Office has three principal functions: providing smooth support for digitalization, accumulating and analyzing educational data, and promoting the use of ICT in education. With digital technology at its core, the office offers comprehensive support from the development of the educational environment through to the use of data, thereby improving the quality of learning.

Cyber Security Office (CS Office)

The Cyber Security Office has three principal functions: implementing information security measures, managing and operating systems securely, and providing security education for students, faculty, and staff. It protects information from both technical and operational perspectives and is responsible for safeguarding the College.

System Administration Office (SA Office)

The System Administration Office is responsible for building the campus LAN system, ensuring stable internet connectivity, and operating and managing the educational computer system. It maintains the communications infrastructure that underpins educational activities and supports a smooth ICT environment.

Campus LAN Equipment

Equipment	Model
Core switch	Extreme 5520-X24
Distribution switch	Extreme X440G2-48t
Edge switch	Extreme X440G2-24t/12p
Servers	DELL PowerEdge, HPE ProLiant, etc.

Educational Computer Equipment

Equipment	Model	Quantity
Client PC	Dell OptiPlex	Approx. 270
Laser printer	OKI COREFIDO	5

Regional Collaboration Center

The Regional Collaboration Center is a hub for regional revitalization and comprises three offices: the Research and Collaboration Office, the Regional Education Support Office, and the Entrepreneur Workshop Promotion Office. Built on joint research, technical consultation, science education for the next generation, and the fostering of entrepreneurs, the Center creates an environment for collaboration among industry, academia, government, and the community.

Research and Collaboration Office

The Research and Collaboration Office promotes industry-academia-government collaboration by supporting the acquisition of external funds and the conduct of joint research, and by receiving requests for technical consultation. It is also responsible for training seminars, public relations, the shared use of equipment and facilities, and cooperation with local organizations, contributing to the region both by invigorating research and by advancing technology.

Regional Education Support Office

The Regional Education Support Office supports science and technology education for elementary and junior high school students through the planning and operation of outreach classes, open lectures, and the KOSEN Hakase Juku program. Working with the community, academia, government, and boards of education, it also provides teacher training, guidance for students considering careers in science and technology, and the loan of laboratory equipment, thereby helping to raise the educational capacity of the region.

Entrepreneur Workshop Promotion Office

The Entrepreneur Workshop Promotion Office supports students aiming to launch startups through entrepreneurship education and the operation of the Entrepreneur Workshop. It also provides student support in cooperation with local companies and other partners, focusing on developing enterprising individuals who will lead the next generation.

Circuit Design and Education Center

In April 2025, we established the Circuit Design and Education Center (CDEC) to build on the knowledge and accomplishments we have developed in semiconductor and integrated circuit design education. The goal of the CDEC is to work closely with National Institutes of Technology throughout Japan to nurture talented students who will play a key role in revitalizing the country's semiconductor industry.

Through this center, we offer hands-on circuit design education that encourages creativity and an entrepreneurial mindset. We also offer specialized programs, teaching materials, and educational content to support the broader integration of technical skills into society. These initiatives are made possible through strong partnerships with companies, and made effective by industry-academia collaboration in our matching labs.

In addition, CDEC collaborates with the Systems Design Lab (d.lab) at the University of Tokyo's Graduate School of Engineering to enhance both educational and research activities. This partnership also helps support graduates of the National Institutes of Technology as they grow into leading professionals in the field.

Global Education Center

The Global Education Center (GEC) was established in April 2024 as the organization responsible for promoting global education at the College and advancing internationalization on campus.

Built on three pillars — sending students overseas, hosting students from abroad, and enhancing English language education — the Center works to develop students' international outlook and practical abilities. Through overseas internships and the Overseas Study Trip in which all second-year students take part, it provides opportunities for international learning while improving language skills and fostering cross-cultural understanding.

The GEC was created through the reorganization of the International Affairs Office and related bodies. Building on their achievements, it is working to further enhance global education, with the aim of developing engineers who understand diverse values and can act independently in the international community.

Number of students sent to other countries

Category / Academic Year	Student Exchange	TOBITATE Study Abroad		International Internship	Academic Presentation	International Class Tour	Total
		Program for High School Students	Program for University Students				
2021	0	3 (Postponed)	0	0	4 *	0	4
2022	14	2	0	0	12 *	0	28
2023	25	2	0	1	3	414	445
2024	28	0	0	3	15	197	243
2025	15	2	1	3	18	201	240
Total	82	6	1	7	52	812	960

* Academic presentations were conducted remotely.

Student Support Center

The Student Support Center was established in 2017 to provide comprehensive support to students. The existing three offices, Student Counseling Room, Career Support Office and Peer Support Office were integrated into this established center. These three offices complement each other to effectively support students.

Educational Personnel

Title	Name	Research Fields
Associate Professor	KAGAWA, Junko	Certified Public Psychologist・Clinical Psychotherapist

Student Counseling Room

Our counseling system for students started in April 1999 at the Student Counseling Room known as “Shichifukujin-no-heya” - the Room of the Seven Deities of Good Luck on the first floor of the Shuko-kan (Students’ Hall), with staff of three teachers, a counselor, a school social worker, and two nurses.

In order to realize the motto “For the Active and Fruitful Campus Life”, we are all ready to listen to students and share their worries and troubles, offering appropriate advice and suggestions. Moreover, we would like to function as a supporter for students to establish themselves and learn how to maintain harmonious relationships in society.

Career Support Office

The Career Support Office (CSO) was established in order to make plans and promote activities to help the students choose a better future career. Our activities are expected to contribute to forming their views of careers, something that will be useful to them not only on graduation, but even at later stages of life. As the initial event, career seminars are planned.

Peer Support Office

The Peer Support Office was newly started in 2023 in order to support and accelerate peer supports between students. Our activities such as seminars, questionnaire surveys, peer supporter enrollment and so on are planned and conducted for students and staffs for the purpose of better student life.

Administrative and Support Offices

Risk Management Office

The Risk Management Office serves as the command center for the College's crisis management system, carrying out comprehensive and systematic planning to ensure the safety of students, faculty, and staff. In normal times it maintains preparedness through information gathering and analysis, the development of manuals, and the provision of education and training. In an emergency it takes the lead in operating the response headquarters, handling everything from rapid communication and coordination to the public disclosure of information and post-incident review.

Planning and Public Relations Office

The Planning and Public Relations Office is responsible for developing the College's long-term vision and for public relations activities that promote the College widely to society. Through forward-looking college management and the active dissemination of information, it serves as a bridge between the College and the wider community.

Institutional Research for Teaching and Learning Office

The Institutional Research for Teaching and Learning Office analyzes a range of data in response to inquiries from the President and, on the basis of the results, examines how the findings can be applied to curriculum improvement, enrollment management, and other areas. It provides objective evidence to support the achievement of the College's goals for education and learning.

Public Relations Office (Entrance Examination)

The Public Relations Office (Entrance Examination) conveys the appeal of the College widely, primarily to elementary, junior high, and high school students, through information sessions, open campus events, visits to junior high schools, and similar activities. It also produces and distributes the college brochure and other publicity materials, delivering information on entrance examinations to prospective students and their families.

Library Management Office

The Library Management Office is responsible for the overall operation of the library, including the selection of books and the management of facilities. In addition to editing and publishing the library newsletter and the College's annual report, it manages the art gallery, promoting the library as a hub for study, research, and cultural activities.

Harassment Counseling Office

The Harassment Counseling Office is the point of contact for complaints and consultations concerning harassment. In addition to responding to consultations, it plans and conducts training and awareness-raising activities aimed at preventing harassment, working to create an environment in which students, faculty, and staff can pursue their studies, teaching, and research with peace of mind.

Gender Equality Office

The Gender Equality Office promotes gender equality in accordance with the DE&I Action Plan of the National Institute of Technology (KOSEN). Through the planning and implementation of related measures, awareness-raising activities, and the dissemination of information, it works to create an environment in which everyone, regardless of gender, can fully exercise their individuality and abilities and play an active role.

Yu-Yu Information Office

The Yu-Yu Information Office (YYIO) was established, separately from the alumni association, in order to promote mutual information exchange between NITA and graduates. As its specific activities, the office offers employment information to graduates who plan to change jobs, or to return from the city to home to work. In return, the office gains useful information about graduates and help for college education. This office aims to offer students useful information on their future course including career education, while cooperating with the Career Support Office (CSO).

Facilities • Naming Rights

Library



▲Art Gallery



▲Library

The library currently contains as many as 93,100 volumes. On the second floor are an independent study hall and a reading room for study and research, each section housing books, journals and other materials needed for research and investigation in various subjects. In addition to books and journals, students will find magazines, newspapers, DVDs, and other learning aids related to class assignments.

The library opens from 8:30 a.m. to 8 p.m. on weekdays and from 10 a.m. to 4 p.m. on Saturdays in order to support students and other visitors for their studies, investigation and research. The library is also open to people outside the college and they can borrow materials as well as read books.

An audio-visual facility, seminar room, and learning commons are also available. Additionally, there is a gallery in the lobby on the first floor which displays about fifty paintings painted by local artists.

Collection of Books

Classification		000 General Works	100 Philo-sophy	200 History	300 Social Science	400 Natural Science	500 Engi-neering	600 Industry	700 Arts	800 Language	900 Literature	Others Specialized	Others Extensive Reading	Others Paperback Pocket Edition	Total
Number of books	Foreign	222	166	240	183	1,040	654	15	81	670	2,560	612	2,964	523	9,930
	Japanese	4,712	1,958	4,946	4,937	9,932	9,531	492	2,097	2,166	11,525	18,350	758	11,766	83,170
	Total	4,934	2,124	5,186	5,120	10,972	10,185	507	2,178	2,836	14,085	18,962	3,722	12,289	93,100

General Research Building

The General Research Building was completed in March in 2003. It houses research and education facilities and is composed of the building for advanced engineering courses and the joint laboratories for the Regional Collaboration Center. The 1st floor has an exhibition hall, an Entrepreneur Workshop and an Entrepreneur Work Promotion Office. The 2nd floor has a joint laboratory and lecture rooms for advanced engineering course students. The 3rd and 4th floors have laboratories exclusively for each major and study rooms for the students.

There are lounges at the connections with the Electronics and Information Engineering Faculty Building. The lounge, a common facility provided with a mini-kitchen, offers a space for the students to relax at recess. The frames are equipped with low yield strength steel dampers for seismic response control and the 3rd and 4th floors have a suspension structure. Moreover, an underground cold heat storage system and photovoltaic power generation system installed on the building serves as supplementary energy sources for the room air conditioners.



Entrepreneur Workshop





The Entrepreneur Workshop is open to students from all courses. It introduces the various equipment and is a place which enables students to experience the entire manufacturing process. It was opened in January 2024.

It has lots of equipment, including printed circuit board processing machines and 3D printers.

Research and Development Building and Joint Research Building



▲Joint Research Building



▲Research and Development Building

The Research and Development Building and the Joint Research Building are facilities provided as college-wide shared space for education and research, not belonging to any particular department or to the Advanced Engineering Course. They are equipped to support research projects conducted by the College's faculty, staff, and students. As venues for joint research and education, these buildings also serve as important bases for deepening cooperation with the local community and collaboration between industry and academia.

Shuko-kan (Student' Hall)



▲School Store



▲Cafeteria, Innovation Commons

The Shuko-Kan was built in 1983 as welfare facility for students. The two-story building with a floor space of 888 ㎡ includes a cafeteria (Innovation Commons), a health room, a counseling room, and a school store on the first floor. It also houses various students, service rooms on the second floor; a music room, a student support room and a room for the student council.

Dormitory

Past the Hagi-no-o Tomb, a national cultural asset featuring 6th-century decorated burial mounds located down the slope in front of the college, stand the “Taimei” Dormitories, situated on a green plateau just across the prefectural border along the Seki River.

The four residential buildings are named “Wakaba” (young leaves), “Momiji” (maple leaves), “Ginnan” (ginkgo), and “Sakura” (cherry blossoms). These names symbolize the healthy growth of young men and women. Here, about 300 students from Fukuoka and nearby prefectures live together. Under the guidance of faculty members, they cultivate social manners, solidarity, and a well-rounded character through structured group living.

The students also foster mutual trust and cooperation while enjoying their daily lives and taking part in various annual events through student-led initiatives.

Admission Capacity, Present Number

Classification / Name of House	Grades	Number of Rooms	Admission Capacity		Present Number of Students
			Per Room	Total	
Ginnan House	1st – 5th, Exchange Students	71	1	71	69
Momiji House	1st – 5th	100	1	100	100
Wakaba House	Under Construction				
Sakura House (for female students)	1st – 5th, Exchange Students	84	1	84	84
Total				255	253

※As of May 1, 2026



▲Sakura House (for Female Students)



▲Taimei House



▲Momiji House (for Male Students)



▲Arataba (Dining Hall)

Naming Rights

The system of naming rights and advertising partners has been introduced to aim the developments of human resources and the educational research environment. The naming rights partners can give titles to the desired facility and can also place their advertising, while the advertising partners can place their advertising to the desired facility appropriately.

List of Naming Rights Partners

Partners	Target Facilities	Titles	Contract Period
Asunaro Aoki Construction Co., Ltd	Joint Lecture Room	Asunaro Aoki Joint Lecture Room	From April 1, 2024 To March 31, 2027
TOA CORPORATION	Innovation Commons	TOA CORPORATION Innovation Café	From June 1, 2024 To May 31, 2027
City Ascom Co., Ltd.	Entrepreneur Workshop	CITY ASCOM Entrepreneur's Workshop	From June 1, 2024 To May 31, 2027
Yeltex Yoshida Co.,Ltd.	Machine Shop	YELTEX FACTORY	From March 1, 2025 To February 29, 2028
SANKEN SETSUBI KOGYO CO., LTD.	Drafting Room/CAD Room	SANKEN Drafting Room/CAD Room	From April 1, 2025 To March 31, 2028
MITSUI MIIKE MACHINERY CO., LTD.	Gymnasium No.1	Sansaku Arena	From March 1, 2025 To February 29, 2028
	Multimedia room	Sansaku Multimedia Room	From March 1, 2025 To February 29, 2028
MUROMACHI CHEMICALS INC.	Physics Laboratory	MUROMACHI CHEMICALS Physics Laboratory	From April 1, 2025 To March 31, 2028

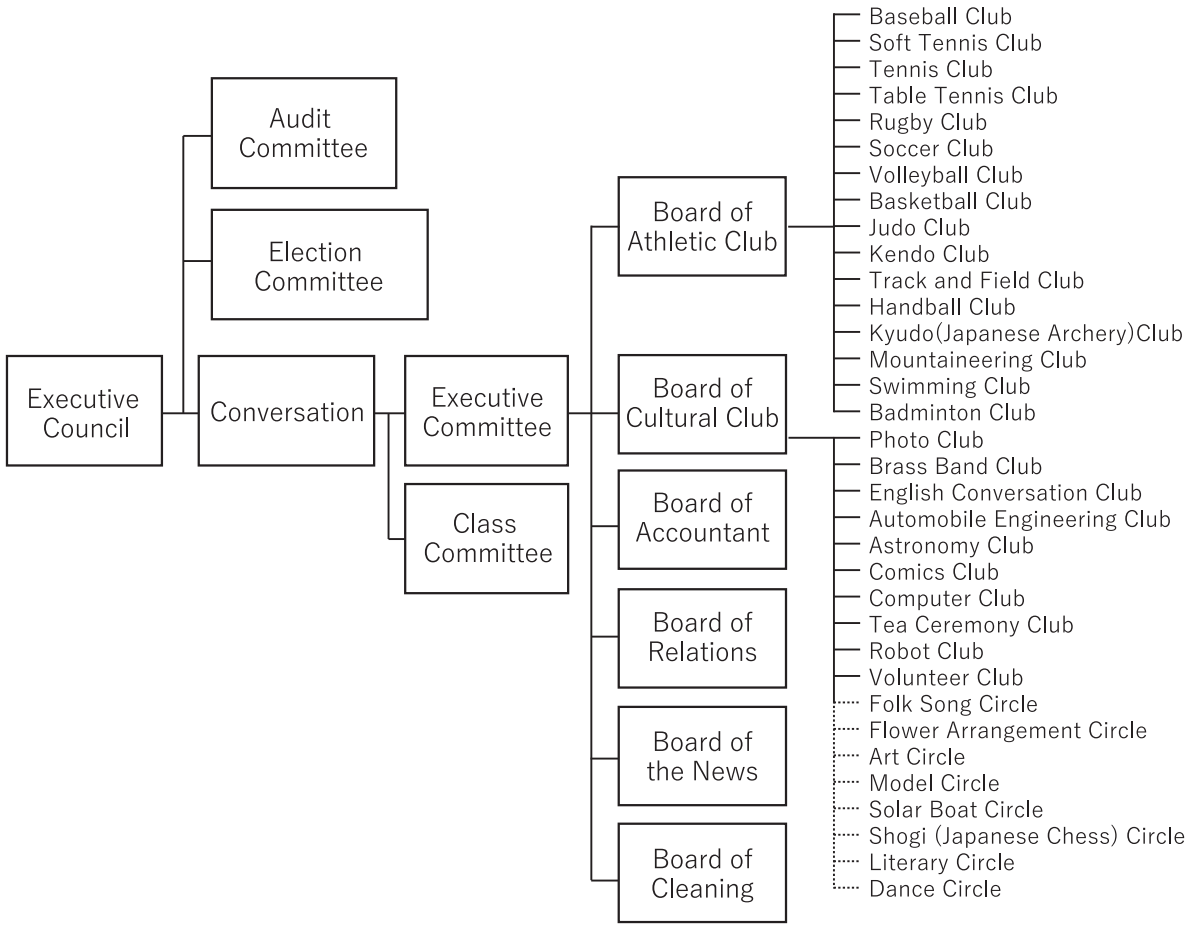
College Calendar

From April 1, 2026 to March 31, 2027

April	Entrance Ceremony Opening Ceremony Periodical Physical Checkup College Foundation Day
May	Open Classroom Inter-Class Tournament Entrance Examination for Advanced Engineering Course
June	Mid-Term Examination of 1st Semester Open Campus Entrance Examination for Advanced Engineering Course
July	Kyushu-Okinawa Area Athletic Meet for Colleges of Technology Term Examination of 1st Semester
August	Summer Vacation Open Campus Entrance Examination into 4th Grade All Japan Athletic Meet for Colleges of Technology Manufacturing Experience
September	Parent-Teacher Meeting Visit to Factories for Study Overseas Training for 2nd Grade
October	Explanatory Meeting on Entrance Examination Robot Contest in the Kyushu-Okinawa Area
November	Kyushu-Okinawa Area Football Meet for Colleges of Technology Kyushu-Okinawa Area Rugby Football Meet for Colleges of Technology Mid-Term Examination of 2nd Semester Student Council Events All Japan Robot Contest
December	Inter-Class Tournament Winter Vacation
January	Brass Band Concert Entrance Examination
February	Final Examination Closing Ceremony Entrance Examination
March	Graduation Ceremony Year-End Vacation

Student Council

Chart of Student Council



The Principal Records of Athletic Meets in Colleges of Technology

Kyushu Athletic Meets			
Athletic Meets Number	Year	Event	Record
54th Meet	2017	Table Tennis (male), Judo	1st Prize
55th Meet	2018	Table Tennis (male)	1st Prize
56th Meet	2019	Track and Field (female), Volleyball (male), Tennis (female)	1st Prize
59th Meet	2022	Track and Field (female), Basketball (male, female), Badminton (female)	1st Prize
60th Meet	2023	Track and Field (male), Basketball (female), Badminton (female), Tennis	1st Prize
61st Meet	2024	Basketball (female), Badminton (female), Table Tennis, Kendo (female)	1st Prize
62nd Meet	2025	Badminton (female), Table Tennis (male), Kendo (male), Kendo (female), Volleyball (male)	1st Prize

All Japan Athletic Meets				
Athletic Meets Number	Year	Place	Event	Record
57th Meet	2022	Shikoku	Badminton (female), Basketball (male)	2nd, 3rdPrize
58th Meet	2023	Kanto, Shinetsu	Track and Field (male, 3000m SC)	1st Prize
59th Meet	2024	Hokkaido	Track and Field (male, 3000m SC)	1st, 2nd Prize
60th Meet	2025	Kyushu	Kendo (male), Volleyball (male)	1st, 3rdPrize

Athletic Meets Number	Year	Place	Event	Record
3rd Meet	2016	Yamaguchi	Women's Team	1st Prize

The Principal Records of Contests in Colleges of Technology

Robot Contest		
(Year) The Name of Event	Robot Name	Record
25th (2012) BEST・PET	KYAROTTO	The Yaskawa Electric Prize
35th (2022) Miracle★Flight：Fly High in the Sky！	AppRoachIng	Good Design Award

Programming Contest		
Year / Location	Category	Record
27th Meet (2016) / Toba	Free	The Fighting Spirit Prize
29th Meet (2018) / Anan	Free	The Fighting Spirit Prize
30th Meet (2019) / Miyakonojo	Free	The Fighting Spirit Prize
34th Meet (2023) / Fukui	Subject	The Prize of NIST・The Prize of jig.jp

Design Competition		
Year / Location	Division	Record
2016 Kochi	Spatial Design	The Most Excellent Prize
2017 Gifu	Spatial Design	The Special Award
2022 Ariake	Spatial Design Creative Design	The Nikken Gakuin Award The Excellent Prize, The Kubota Award
2023 Maizuru	Structural Design Creative Design	The Special Award The Special Award
2025 Fukui	Structural Design Spatial Design	The Special Award The Special Award

The Principal Records of Contests in Colleges of Technology

English Presentation Contest		
Year	Category	Record
11th Meet (2017)	Single Section	3rd Prize in Japan
12th Meet (2018)	Presentation Section	1st & 2nd Prize in Kyushu
13th Meet (2019)	Presentation Section	2nd Prize in Kyushu
16th Meet (2022)	Presentation Section	1st Prize in Kyushu

KOSEN Girls SDGs × Technology Contest		
Year	Team Name	Record
1st Meet (2022)	Circuit Design Girls	60th Anniversary Award
2nd Meet (2023)	Circuit Design Girls	Finalist Award

KOSEN Entrepreneur Summit		
Year	Team Name	Record
1st Meet （2023）	Circuit Design Boys	Excellence Award

Operational Amplifier Design Contest		
Year	Category	Record
2021	Prototype Division	7th Prize
2022	Simulation Division Category1	2nd Prize
2023	Prototype Division Simulation Division Category1 Simulation Division Category3	2nd Prize, 5th Prize, 7th Prize 3rd Prize 6th Prize, 7th Prize
2024	Simulation Division Category4	3rd Prize, 4th Prize

Honda Eco Mileage Challenge		
Year	Record	
Kyushu Meet (2018)	Group Ⅲ:University, KOSEN and Technical College Motorcycle Class	1st Prize 2nd Prize
All Japan Meet (2018)	Motorcycle Class Group Ⅲ:University, KOSEN and Technical College	1st Prize 3rd Prize
Kyushu Meet (2019)	Group Ⅲ:University, KOSEN and Technical College Motorcycle Class	1st Prize 1st Prize
Kyushu Meet (2021)	Group Ⅲ:University, KOSEN and Technical College Motorcycle Class	1st Prize 1st Prize
Kyushu Meet (2025)	Group Ⅲ:University, KOSEN and Technical College CN-Motorcycle Class	1st Prize 1st Prize

Research

Research Goals

1) To raise the educational level necessary to develop highly practical engineers.
2) To contribute to the activation of the community through collaborative research with local businesses.
3) To make an academic contribution to specific technical fields.

Grants-in-Aid for Scientific Research

Classification \ Year	2021		2022		2023		2024		2025	
	Number	Funds	Number	Funds	Number	Funds	Number	Funds	Number	Funds
Scientific Research (B)	0	0	0	0	1	4,940	2	13,390	2	10,530
Scientific Research (C)	13	13,390	17	18,850	14	12,480	15	13,650	15	13,780
Early-Career Scientists	3	4,160	4	4,160	4	8,190	4	2,860	1	650
Research Activity Start-up	1	1,560	1	1,560	1	780	1	0	1	910
Encouragement of Scientists	3	1,090	1	130	0	0	0	0	1	390
Public presentation of research results Hirameki☆Tokimeki Science	1	360	0	0	0	0	0	0	0	0
Total	21	20,560	23	24,700	20	26,390	22	29,900	20	26,260

2025 Project List

Amount: FY2025 Funds Received (Direct Costs + Indirect Costs)

Grant-in-Aid for Scientific Research (B)		
Establishment and Application of AOPs Using Animal-Alternative Toxicity Assessment Methods Based on Small Fish Embryos	TOMINAGA, Nobuaki	4,550
Occurrence and Environmental Risk Assessment of Systemic Insecticides in Marine Crustaceans	UCHIDA, Masaya	5,980

Grant-in-Aid for Scientific Research (C)		
A Study on Changes in the Spatial Structure of Fishing Villages Associated with Infrastructure Development on Remote Islands	MORITA, Kentaro	0 (Extended)
The Role of Phrasal Verbs in the Emergence of the English Novel	MURATA, Kazuho	0 (Extended)
Algebraic Combinatorics of Symmetric Groups and Spin Representations	AOKAGE, Kazuya	0 (Extended)
Educational technology for collaboration between computer programming and integrated circuit design	ISIKAWA, Yohei	780
A HW-SW design and execution platform for sustainable edge-computing devices based on HDLRuby	Gauthier Lovic	910
Introduction of substances into fish fertilized eggs via multi-pulse electroporation	KONO, Susumu	1,170
Developing a Housing Environment Management Model in Collaboration with Welfare Commissioners of Population Decline	SADOHARA, Yohei	260
Construction and Evaluation of a Community Environment for the Sustainable Improvement of Practical Teaching Competencies among High School Information Studies Teachers	TAZUNEKI, Shin-ichi	1,170
Development of a Urine Volume Measurement System Using Bioimpedance to Reduce the Burden of Caregiving	SHIMIZU, Akio	1,040
Direct formation of hugh-performance nanocrystalline diamond electrodes on metal substrates	HARA, Takeshi	1,950
Development of a Controllable Three-Dimensional Superconducting Coaster: Comprehensive Educational Material Development in Electromagnetism	TAKEUCHI, Norio	520
A Practical Study of Mathematics Education Using Written-Response Learning Materials and ICT to Facilitate Interactive Learning	TABATA, Ryo	520
Development of Audio Recording Systems with Noise Reduction and Target Extraction in Dynamic Acoustic Environments	ISHIBASHI, Takaaki	1,690

UNIT: Thousands JPY

Estimation of Accumulated Plastic Deformation Capacity of Welded Connections with Defects under Cyclic Loading using Charpy Absorbed Energy	IWASHITA, Tsutomu	2,470
Spin Representations of the Symmetric Groups and Related Representation Theory	AOKAGE, Kazuya	1,300

Grant-in-Aid for Early-Career Scientists		
Development and Evaluation of a Urinary Incontinence Prevention System Combining AI with a Multipoint Bladder Urine Volume Measurement Circuit	NOGUCHI, Takuro	650

Grant-in-Aid for Encouragement of Scientists		
Development of a Real-Time Monitoring System to Facilitate Self-Regulated Learning of Proper Filing Posture	ISHIBASHI, Daisaku	390

Grant-in-Aid for Research Activity Start-up		
The Adoption of Verandahs in 19th-Century Catholic Church Architecture in Southern Vietnam	TAKAGI, Makiko	910

Other Competitive Research Funding

NEDO		
Development of Low-Profile Magnetic Structure for Low-Loss and High-Density Integration of High-Frequency Power Magnetic Devices	SHIRAKAWA, Tomohide	700
Development of an Ultra-High-Efficiency Polymer-Brush-Based Virus Concentration Technology for Wastewater-Based Epidemiological Surveillance	OKOBIRA, Tadashi	7,660

UNIT: Thousands JPY

Interaction with the Local Community (2025)







For Elementary and Junior High School Students

	Date	Venue / Organizer	Participants
Programs of the Collaboration Promotion Council (with Omuta City Board of Education)			
Let's Make Colorful Artificial Salmon Roe	9/19	Hakkou Junior High School	81
Let's Build a Giant Air Cannon!	10/31	Omuta Chuo Elementary School	114
Let's Have Fun with Liquid Nitrogen!	11/4	Kuranaga Elementary School	60
Let's Build a Giant Air Cannon!	12/15	Takatori Elementary School	36
Let's Build a Giant Air Cannon!	1/20	Hayamadai Elementary School	108

	Date	Venue / Organizer	Participants
Programs of the Collaboration Promotion Council (with Arao City Board of Education)			
Find the Culprit! ～ Try Chemical Analysis! ～	4/20	Arao Culture Center	40
Let's Make Colorful Artificial Salmon Roe	9/9	Arao Daiichi Elementary School	32
The Science of Water: Science Experiments for Girls! (Making Original Accessories with UV Resin)	10/5	Midorigaoka Elementary School	32
Family Workshop: Wooden Box Making	10/19	Aoki Asunaro Construction Co. Joint Lecture Room / National Institute of Technology, Ariake College	25
Build a Bridge! Cross the Bridge!	11/21	Fumoto Elementary School	20
Hands-on Crafting Programs			
Hands-on Crafting Workshop	8/21	National Institute of Technology, Ariake College	Approx. 1,000
Kinokuni Robot Festival 2024: Northern Kyushu Regional Qualifier for the All-Japan Elementary and Junior High School Robot Championship	9/20 (Build & Customize Workshop) 10/25 (Qualifying Round)	National Institute of Technology, Ariake College	17
20th Hands-on Electronics Workshop	10/25	National Institute of Technology, Ariake College	34
Other Requested Programs			
RIKADOKU: Programming and AI	11/9	Omuta City Library	40
ARAKARU Kids Day - Have Fun with Art! Have Fun in Arao! -	1/12	Arao Culture Center	Exhibition only
Exhibition at the Hands-on Booth in an award ceremony and presentation event featuring lifelong learning volunteers "MANABANKAN" and company delivery lecture "Omuta CHIEBUKURO (Wisdom Bag)"	2/23	Omuta Lifelong Learning and Town Development Promotion Council (Omuta City Lifelong Learning Division)	Approx. 100
Omuta Industrial Festa	3/14	Omura Industrial Festa Executive Committee (Public Relations Section, Omuta City Planning and General Affairs Department)	–

For the General Public

What Pollen Tells Us: Exploring Earth's History through Pollen	11/6	Omuta Lifelong Learning and Town Development Promotion Council (Omuta City Lifelong Learning Division)	16
Various Fermented Foods: The Power of Invisible Microorganisms	11/20	Omuta Lifelong Learning and Town Development Promotion Council (Omuta City Lifelong Learning Division)	27

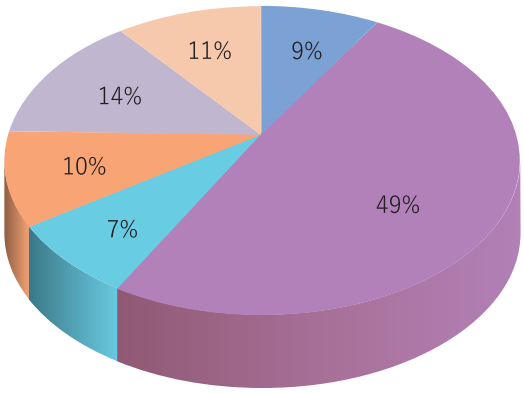
Ariake Kosen Hakase Juku

Ariake Kosen Hakase Juku	8/23～12/20 (5 sessions in total)	National Institute of Technology, Ariake College	21

Situation of Finance, External Fund

Situation of Finance (2024)

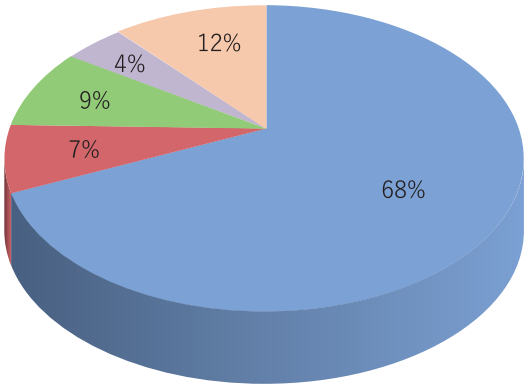
Revenue



Revenue	Amount in Thousand Yen
Grants-in-aid for Operational Expenditure	36,726
Tuition Fees	206,583
Entrance Fees, Exam Fees, Miscellaneous	31,706
Industry-Academia Collaborative Research Expenses	40,137
Endowments	57,569
Other Subsidies	45,290
Total	418,011

Personnel expenses are accounted for separately by the NIT (KOSEN) Headquarters and are therefore excluded from the Grants-in-Aid for Operational Expenses.

Expenditures



Expenditures	Amount in Thousand Yen
Education and Research Expenses	260,048
General Management Expenditure	25,312
Industry-Academia Collaborative Research Expenses	33,026
Endowments	16,568
Other Subsidies	44,205
Total	379,159

External Funds

Year / Classification	2021		2022		2023		2024		2025	
	Number	Funds	Number	Funds	Number	Funds	Number	Funds	Number	Funds
Endowments	11	12,013	16	19,373	9	9,931	13	55,829	20	10,960
Collaborative Research	13	39,155	14	20,683	17	31,972	12	16,036	16	44,823
Commission Research	5	7,255	4	5,217	0	0	1	1,673	1	1,729
Commission Test	1	7,120	1	7,154	1	6,634	1	6,114	1	5,840
Others	9	7,325	11	14,182	8	10,507	10	20,000	13	79,724
Total	39	72,868	46	66,609	35	59,044	37	99,652	51	143,076

※(UNIT:Thousand JPY)

External Funds for Global Education

Year / Classification	2021		2022		2023		2024		2025	
	Number	Funds	Number	Funds	Number	Funds	Number	Funds	Number	Funds
Foundations, Others	4	5,903	3	2,890	3	3,530	3	3,698	3	4,230
Competitive Fundings From KOSEN HQ／Allocation Amount	1	10,472	1	10,375	2	11,345	2	12,085	2	12,928
Total	5	16,375	4	13,265	5	14,875	5	15,783	5	17,158

※(UNIT:Thousand JPY)



▲Farewell Party for International Students



▲DC Motor Experiment



▲Lecture and Discussion Session with Women Engineers

Admission Capacity and Present Number of Students

Department / Course \ Classification		Admission Capacity	Total of Capacity	Present Number of Students					
				1st	2nd	3rd	4th	5th	Total
Creative Engineering	Energy Course	200	1,000	206 (75)	207 (79)	44 (7)	44 (3)	38 (6) [1]	1,025 (341) [4]
	Applied Chemistry Course					18 (10)	11 (4)	9 (5)	
	Life and Environmental Course					13 (6)	16 (12) [1]	9 (6)	
	Mechanics Course					47 (12) [1]	43 (6)	44 (13)	
	Information System Course					48 (12)	44 (8)	45 (12) [1]	
	Architecture Course					53 (28)	40 (20)	46 (17)	
Total		200	1,000	206 (75)	207 (79)	223 (75) [1]	198 (53) [1]	191 (59) [2]	1,025 (341) [4]

※As of May 1, 2025 (female students), [overseas students]

Admission Capacity and Present Number of Students (Advanced Engineering Course)

Course \ Classification	Admission Capacity	Total of Capacity	Present Number of Students		
			1st	2nd	Total
Advanced Production and Information System Engineering	12	24	13(3)〔2〕	12(1)〔2〕	25(4)〔4〕
Advanced Chemical Science and Engineering	4	8	5(2)	5(1)〔1〕	10(3)〔1〕
Advanced Architecture	4	8	1(1)	6(1)	7(2)
Total	20	40	19(6)〔2〕	23(3)〔3〕	42(9)〔5〕

※As of May 1, 2026 (female students)

〔〕 = Kyushu University School of Engineering–Kyushu–Okinawa 9 KOSEN Collaborative Education Program students (included in total)

Number of Applicants and Competitive Ratio of Entrance Examination

Year	Department of Creative Engineering
(2026)	282 (1.4)
(2025)	302 (1.5)
(2024)	299 (1.5)
(2023)	286 (1.4)
(2022)	308 (1.5)

Applicant (Rate)

Places of Origin of New Students (2026)

Area	No. of Students
Fukuoka Prefecture	130
Omuta City	35
Miyama City	5
Ukiha City	1
Yanagawa City	8
Okawa City	1
Chikugo City	1
Kurume City	15
Yame City	4
Asakura City	2
Fukuoka City	25
Chikushino City	3
Kasuga City	7
Nakagawa City	1
Fukutsu City	1
Nakama City	1
Itoshima City	3
Dazaifu City	2
Onojo City	3
Kama City	2
Asakura District	1

Area	No. of Students
Yame District	1
Mizuma District	4
Kasuya District	3
Mii District	1
Kumamoto Prefecture	60
Arao City	20
Tamana City	18
Kumamoto City	5
Yamaga City	3
Tamana District	14
Saga Prefecture	10
Saga City	6
Tosu City	1
Karatsu City	2
Kanzaki District	1
Shizuoka Prefecture	1
Iwata City	1
Tokyo	1
Setagaya Ward	1
Total	202

List of Collection Expenses

Expense Item		Amount (JPY)	Remarks
Admission Fee		84,600 yen	
Tuition Fee		Semi-annual 117,300 yen	(Annual: 234,600 yen)
Textbook and Material Expenses		Approx. 100,000 yen	(Includes materials, etc.)
Student Association Admission Fee / Annual Membership Fee		9,000 yen	(Admission fee: 2,000 yen, Annual fee: 7,000 yen)
Parents' Association Expenses	Admission Fee	10,000 yen	
	Graduation Commemoration Fee	2,000 yen	
	Annual Membership Fee	24,000 yen	
Alumni Association Student Membership Fee		15,000 yen	(Upon admission only)
Japan Sport Council Mutual Aid Benefit Fee (Parental Contribution)		Annual 1,550 yen	
Dormitory Students Only	Boarding Fee	Semi-annual 4,800 yen	(Annual: 9,600 yen)
	Dormitory Parents' Association Fee	Annual 10,000 yen	
	Dormitory Maintenance Fee	Semi-annual 30,000 yen	(Annual: 70,000 yen) 40,000 yen per semester in 2nd semester of FY2026
	Dormitory Student Association Fee	Annual 2,000 yen	
	Meal Expenses	Daily 1,460 yen	(Monthly rate: Daily rate × Number of meal days) 1,680 yen in 2nd semester of FY2026
	Indoor Shoes	1,800 yen	

*Bedding rental is also available. [Rental fee (Annual): 18,700 yen]

Graduates

Number of Graduates

Energy Course	Applied Chemistry Course	Life and Environmental Course	Mechanics Course	Information System Course	Architecture Course	Total of Department of Creative Engineering
212	96	117	254	255	237	1,171

Mechanical Engineering	Electrical Engineering	Electronics and Information Engineering	Chemical Science and Engineering	Architecture
			Industrial Chemistry	
1,919	1,873	984	713 1,080	1,732

Total of Graduates
9,472

Employment or Academic Position of Graduates (2025)

Classification \ Course		Energy Course	Applied Chemistry Course	Life and Environmental Course	Mechanics Course	Information System Course	Architecture Course	Total
Number of Graduates		42	12	12	46	48	37	197
Number of Applicants for Employment		34	6	8	36	34	26	144
Number of Employed		34	6	8	36	34	26	144
Number of Admissions into Universities		8	6	4	10	13	11	52
Others (including independent enterprises)		0	0	0	0	1	0	1
Regions	Other Prefectures	29	5	7	24	23	22	110
	Fukuoka Prefecture	5	1	1	12	11	4	34
Number of Companies Concerned		778	508		753	741	206	2,986
Rate of Posts Offered		22.9	84.7	63.5	20.9	21.8	7.9	20.7

Entrance into Universities

Names	2021	2022	2023	2024	2025
National Institute of Technology, Ariake College Advanced Course	31	29	25	23	17
Toyohashi Univ. of Technology	6	8	8	3	7
Nagaoka Univ. of Technology		1	2	4	1
Kyushu Univ.	2		1	4	5
Kyushu Institute of Technology	7	3	5	3	2
Saga Univ.	1	2		2	4
Kumamoto Univ.	3	9	5	6	9
Miyazaki Univ.	1			1	
Kagoshima Univ.	1	1	1	1	1
Yamaguchi Univ.		1	1	1	
Tokyo University of Agriculture and Technology	1	2		1	
Kyushu Sangyo Univ.				1	
Sanyo-Onoda City Univ.				1	
Musashino Art Univ.				2	1
Tokyo City Univ.				1	

Names	2021	2022	2023	2024	2025
Kobe Design Univ.				1	
Kobe Univ.			1		
Fukuoka Univ.			1		
Oita Univ.		2			
Kanazawa Institute of Technology		1			
Osaka Univ.		1			
Fukuyama Univ.		1			
Chiba Univ.	1				
Tokyo Institute of Technology	1				
Tokyo University of Marine Science and Technology	1				
Tokyo Polytechnic Univ.					1
Kyoto Arts and Crafts Univ.					1
Saitama Univ.					1
Tsukuba Univ.					1
Shimane Univ.					1
Other				1	

Entrance into Graduate Schools

Names	2021	2022	2023	2024	2025
Kyushu Univ.	8	1	4	4	7
Kyushu Institute of Technology		2	2	3	
Miyazaki Univ.				1	
Saga Univ.	1		1	1	
Kagoshima Univ.				1	
Tohoku Univ.				1	

Names	2021	2022	2023	2024	2025
Institute of Science Tokyo				1	
Tokyo Institute of Technology.			1		
Kumamoto Univ.			1		3
Toyohashi Univ. of Technology			2		
Prefectural Univ. of Kumamoto					1

List of Employment (2025)

Employer Name \ Course	Energy Course	Applied Chemistry Course	Life and Enviromental Science Course	Mechanics Course	Information System Course	Architecture Course	Advanced Engineering Course	Total
アイ・システム株式会社					1			1
旭化成株式会社		1		1			1	3
株式会社 旭製作所					1			1
artience株式会社			1					1
アマゾンジャパン合同会社					1			1
有明機電工業株式会社	1							1
有明高専技術職員					1			1
株式会社有明ねっとこむ					1			1
株式会社RKKCS							1	1
いすゞエンジニアリング株式会社				1				1
一般財団法人日本品質保証機構				1				1
一般社団法人日本血液製剤機構			1					1
伊藤忠アーバンコミュニティー							1	1
インフォコムテクノロジーズ株式会社					1			1
株式会社VIALE						1		1
株式会社NHKテクノロジーズ	1							1
株式会社NTTデータ					1			1
株式会社エムジー	1							1
株式会社MJC					1			1
大阪ガスネットワーク株式会社				1				1
オークマ株式会社				1				1
株式会社オービーシステム					1			1
オムロンフィールドエンジニアリング株式会社				1				1
花王株式会社			1					1
鹿島建設株式会社						2		2
関西電力株式会社	1							1
キヤノン株式会社				1				1
キヤノンマーケティングジャパン株式会社	1							1
キヤノンメディカルシステムズ株式会社				1				1
九州電力株式会社	1							1
九電産業株式会社	1							1
Qsol株式会社					1			1
株式会社QTnet					1			1
京セラ株式会社(鹿児島)					1			1
京セラ株式会社鹿児島川内工場				1				1
麒麟麦酒株式会社				1				1
株式会社きんでん	1							1
株式会社クボタ	1			1				2
株式会社グローリア・ソリューションズ					1			1
KMアルミニウム株式会社							1	1
KMバイオロジクス株式会社	1	1						2
KDDIエンジニアリング株式会社					1			1
建装工業株式会社						1		1
国光施設工業株式会社	1							1
コニカミノルタジャパン株式会社	1							1
株式会社佐賀銀行					2			2
沢井製薬株式会社							1	1
サントリーホールディングス株式会社				1				1
株式会社ＳＡＮＭＡＴＳＵ	1							1
株式会社ジェイ・クリエイション							1	1
株式会社システムソフト					1			1
株式会社シティアスコム					1			1
芝浦機械株式会社							1	1
JFEプラントエンジ株式会社	1							1
清水建設株式会社						1		1
Japan Advanced Semiconductor Manufacturing					1			1
昭栄化学工業株式会社		1						1
株式会社SUBARU					1			1
住友林業ホームエンジニアリング株式会社						1		1
住友林業ホームテック株式会社						1		1
西部電機株式会社				1				1
ソニーセミコンダクタマニュファクチャリング株式会社	1							1
株式会社ソフト九州							1	1
ダイキン工業株式会社	1							1
株式会社大建設計						1		1
株式会社ダイコーテクノ				1				1
株式会社大電			1					1
大日精化工業株式会社		1						1
太陽工業株式会社	1							1
大陽日酸株式会社				1				1
タカハ機工株式会社				1				1

Employer Name \ Course	Energy Course	Applied Chemistry Course	Life and Enviromental Science Course	Mechanics Course	Information System Course	Architecture Course	Advanced Engineering Course	Total
株式会社タケウチ建設						1		1
株式会社竹中工務店							1	1
株式会社中央エンジニアリング				1				1
中外製薬工業株式会社			1					1
中部電力株式会社	1							1
中菱エンジニアリング株式会社				1				1
株式会社TMEIC	1							1
DIC株式会社			1					1
デンカ株式会社	1							1
電源開発株式会社(J-POWER)	1							1
株式会社デンソー九州				1				1
デンソーテクノ株式会社				1				1
東亜建設工業株式会社						1		1
東京水道株式会社						1		1
東京電子株式会社	1							1
東レ建設株式会社						1		1
株式会社戸上電機製作所		1						1
戸田建設株式会社						1		1
トーテックアメニティ株式会社				1	1			2
TOPPANテクニカル・デザインセンター株式会社					1		1	2
冨安建設						1		1
株式会社トヨタシステムズ				1				1
株式会社トヨタプロダクションエンジニアリング				1				1
西鉄情報システム株式会社					1			1
西日本高速道路ファシリティーズ株式会社					1			1
西日本電信電話株式会社	1							1
株式会社西日本シティ銀行	1							1
西日本旅客鉄道株式会社	3			1				4
西松建設株式会社						1		1
日清紡マイクロデバイス株式会社	1							1
日清紡マイクロデバイスＡＴ株式会社					1			1
日鉄ケミカル＆マテリアル株式会社							1	1
日本アルゴリズム株式会社					1			1
日本環境アメニティ株式会社						1		1
日本精工九州株式会社					1			1
日本通信エンジニアリングサービス株式会社					1			1
パナソニックエンターテインメント＆コミュニケーション株式会社				1				1
パナソニックコネクト株式会社				1				1
久光製薬株式会社				1				1
平田機工株式会社	1							1
ピーエス・コンストラクション株式会社						1		1
株式会社BeeX					1			1
株式会社福岡銀行					1			1
福岡県庁							1	1
福岡国際空港株式会社						1		1
福岡市職員(初級,行政技術,電気)					1			1
富士電機株式会社	1							1
前田建設工業株式会社						1	1	2
株式会社牧野フライス製作所				1				1
丸善石油化学株式会社			1					1
株式会社ミズホメディー			1					1
三井化学株式会社大牟田工場		1						1
株式会社三井三池製作所九州事業所				1				1
三菱ガス化学株式会社	1							1
三菱ケミカルエンジニアリング株式会社						1		1
三菱地所コミュニティ株式会社				1		1		2
三菱電機株式会社電子通信システム製作所	1							1
三菱電機ビルソリューションズ株式会社						1		1
株式会社未来工房						1		1
メタウォーター株式会社	1			1				2
森永製菓株式会社				1				1
安川オートメーション・ドライブ株式会社				1			1	2
株式会社安川電機				1				1
ヤンマー建機株式会社				1			1	2
株式会社ユー・エス・イー					1			1
株式会社横河ブリッジ						3		3
株式会社ラック					1			1
リンク情報システム株式会社					1			1
レンゴー株式会社	1							1
ローム・アポロ株式会社				1				1
Total	34	6	8	36	34	26	15	159

Facilities

Classification			Location: Omuta City, Fukuoka Prefecture	Arao City, Kumamoto Prefecture	Total
Land Area (㎡)	College Area		83,125		83,125
	Dormitory Area			23,339	23,339
	Faculty and Staff Housing Site		8,061	4,939	13,000
	Total		91,186	28,278	119,464
Buildings (Total Floor Area) (㎡)	School Buildings, etc.		25,500		25,500
	Dormitory Buildings, etc.			6,886	6,886
	Faculty and Staff Housing	Number of Units	13	16	29
		Floor Area	729	972	1,701
	Total		26,229	7,858	34,087

Details of College Buildings

Building Name	Structure *1	Total Floor Area (㎡)
College Area		
Administration Office Building	RC2	832
Student Affairs Building	RC1	140
Library	RC3	1,565
Information Processing Center	RC3	413
North Building for General Education	RC3	2,506
South Building for General Education	RC3	1,305
Building for Common Technical Course Education	RC3	259
Building No.1	RC3	1,625
Building No.2	S2	547
Building No.3	RC3	1,484
Building No.4	RC3	1,484
Building No.5	RC2	869
Building No.6	RC5	2,224
General Research Building	S4	1,602
North Multipurpose Building for Education	RC3	513
South Multipurpose Building for Education	RC3	602
Machine Shop	RC1・S1	1,770*2
Joint Research Building	S1	350
Students' Hall (Shuko-Kan)	RC2	888
Gymnasium No.1	S1	1,075
Gymnasium No.2	S1	908
Kendo and Judo Hall	S1	324
Research and Development Building	RC2	263
Sports Club Rooms	RC1	168
Arts and Culture Club Rooms	W1	130
Other	RC1・S	1,654
Subtotal		25,500
Dormitory Area		
Wakaba House	RC3	1,338
Momiji House	RC4	1,783
Ginnan House	RC3	1,258
Sakura House	RC4	1,786
Dining Hall (Includes Bathing Facilities)	RC1	686
Other	RC1	15
Subtotal		6,866
Total		32,386
Outdoor Sports Facilities (Campus Area)		
Sports Ground	400m Track Course	
Baseball Field	1 Field (7,441m²)	
Swimming Pool	25m (7 lanes)	
Kyudo Field	3 Shooting Positions	
Handball Court	2 Courts (3,156 m²)	
Tennis Court	5 Courts (3,790 m²)	

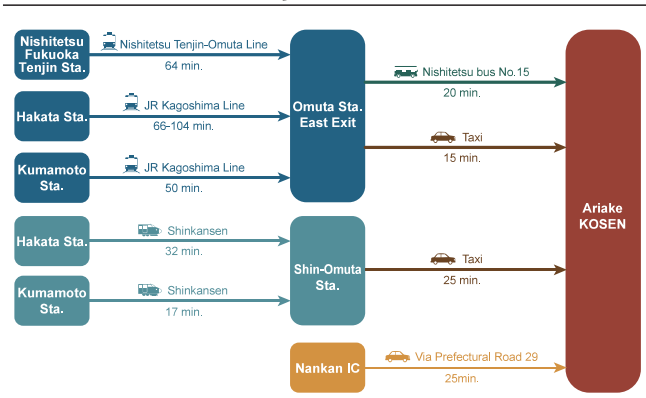
*1 RC: Reinforced Concrete, S: Steel, W: Wood. Numbers indicate the number of stories.
*2 Includes Mechanical Engineering Laboratory (808 m²).

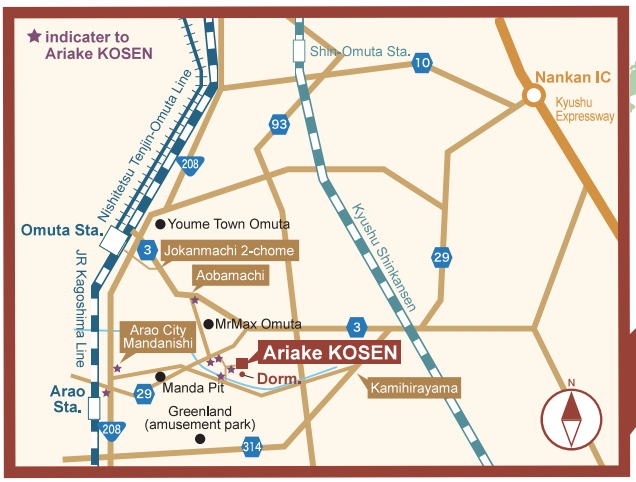
Campus Map


Baseball Field
Swimming Pool
Gymnasium No. I
Building No.6 (Information System Course)
Research and Development Building
Kendo and Judo Hall
General Research Building
Tennis Court
Joint Research Building
Gymnasium No.2
North Building for General Education
South Building for General Education
Building No.5 (Mechanics Course)
Administration Office Building
Machine Shop
Sports Ground
Student Affairs Building
Building No. I (Applied Chemistry Course)
Building No.3 (Energy Course)
Car Parking
Library
Building No.4 (Architecture Course)
North Multipurpose Building for Education
South Multipurpose Building for Education
Bicycle Parking
Main Gate
Building No.2 (Life and Environmental Course)
Students' Hall (Shuko-Kan)
South Gate
Bus Stop
College Area
E
N
S
W


Momiji House
Sakura House
Wakaba House
Ginnan House
Dining Hall
Car Parking
Main Gate
Dormitory Area

Location, Contact Us







Contact Us

National Institute of Technology (KOSEN)

Ariake College

Address (College) 150 Higashihagio-machi, Omuta-shi, Fukuoka, Japan 836-8585
(Dormitory) 2 Shimoide, Arao-shi, Kumamoto, Japan 864-0011
e-mail www-admin@ariake-nct.ac.jp
URL https://www.ariake-nct.ac.jp/

○General Affairs Division
TEL +81-944-53-8611 (FAX 0944-53-1361)

○Student Affairs Division
TEL 0944-53-8622 (FAX 0944-53-8862)

○Library
TEL 0944-53-8613 (FAX Shared)

○Student Counseling Room
TEL 0944-53-8657

○Dormitory
TEL 0944-53-8630 (FAX Shared)

○Energy Course
TEL 0944-53-8867 (FAX Shared)

○Applied Chemistry Course/
Life and Environmental Science Course
TEL 0944-53-8869 (FAX Shared)

○Mechanics Course
TEL 0944-53-8865 (FAX Shared)

○Information System Course
TEL 0944-53-8873 (FAX Shared)

○Architecture Course
TEL 0944-53-8871 (FAX Shared)

○Department of General Education
TEL 0944-53-8876 (FAX Shared)

ARIAKE KOSEN

黎明（1963.4～1968.3）

昭和38年4月1日　荒尾に普通科等専門学校（機械工学科・電気工学科・工業化学科）の設置
　　市代立校に熊本大学工学部長 平尾正衛 就任
4月20日　荒尾市役所への校舎一部移転
30年記念　大牟田市営総合体育館竣工
昭和39年3月20日　学校全体の荒尾移転
3月31日　一般科目棟・管理棟竣工
昭和40年3月31日　第1期学校工事竣工（電気工学科棟・工業化学科棟・機械工場・普通教育棟）
昭和41年3月27日　第2期学校工事竣工（機械工学科棟・体育館・学校全体完成）
4月1日　事務部制を実施し、庶務・会計の2課制度
30年記念　校舎落成式典行
昭和43年3月30日　武道場竣工




揺籃（1968.4～1973.3）

昭和43年4月1日　建築学科増設
　　9月1日　第5代校長に熊本大学工学部長 磐佐陽雄 就任
昭和44年3月24日　建築学科棟・普通教育棟竣工
昭和45年4月1日　学生課開設
　　11月6日　校友会の定義を決定、同日付けで校長事務取扱として安藤哲吉大佐着任式挙行
昭和46年3月24日　第2代校長に熊本大学工学部長 轟一郎 就任
昭和47年2月25日　図書館棟竣工




成長（1973.4～1988.3）

昭和48年11月16日　創立10周年記念式典挙行
昭和49年3月30日　電子計算機セイ語数値実験センター竣工
昭和51年3月9日　L.L.（語学演習室）教室ほか一般科目棟ほか竣工
昭和52年2月24日　総合実習センター竣工
昭和55年4月1日　第3代校長に九州大学工学部教授 吉村恵郎 就任
昭和56年3月17日　寮2食堂竣工
昭和57年3月30日　環境開発教育研究施設（現 環境研究棟）竣工
昭和58年3月31日　製図実習（新C館）竣工
　　10月20日　創立20周年記念式典挙行
昭和61年4月1日　第4代校長に九州大学工学部教授 竹村哲英 就任






確立（1988.4～2003.4）

平成元年4月1日　電子制御工学科増設
平成3年3月20日　電子制御工学科棟竣工
平成4年4月2日　第5代校長に九州大学工学部長 酒匂憲生 就任
平成5年3月25日　春日台セイ棟（B棟）竣工
　　11月6日　創立30周年記念式典挙行
平成6年4月1日　工業化学科を物質工学科へ改組
平成8年3月22日　物質工学科を物質棟竣工
平成9年4月2日　第6代校長に九州大学工学部長 山藤馨 就任
　　9月1日　地域連携推進センター設置
平成11年4月1日　学生相談室設置
平成12年3月13日　一般財団機械振興協会研究棟・技術開発棟竣工
平成13年4月1日　複合材料・生産環境システム工学専攻・応用物質工学専攻・建築学専攻設置
　　教育研究技術支援センター設置
　　9月21日　機械工学科棟・物質工学科棟増築
　　11月30日　総合実習センター改修
平成14年3月17日　地域共同テクノセンター設置
　　4月1日　第7代校長に九州大学工学部長 原崎雅弘 就任
　　9月30日　電気工学科・建築学科・第一体育館改修及び連絡通路（一般教育棟、建築学科棟間）竣工
平成15年3月24日　総合研究棟竣工






進化（2003.4～2013.4）



　　4月19日　創立40周年・総合研究棟竣工記念式典挙行
平成16年4月1日　独立行政法人国立高等専門学校機構発足
平成17年4月17日　中国語学科新たに大学との連携交流協定締結
平成18年1月12日　大牟田市関心への教育交流協定締結
　　4月1日　マルチメディアセンター設置
　　7月1日　遠隔支援室設置
　　7月19日　有友寮増築竣工
平成19年10月12日　大牟田市教育委員会との連携協力協定締結
　　4月1日　事務局組織体制を行い第一、第二課制・企画調査室を設置に再編
　　7月19日　寄宿舎増築改修
　　11月16日　図書館増改修
平成20年3月24日　大牟田市との連携協力に関する包括協定書締結
　　4月1日　第8代校長に九州大学大学院システム情報科学研究院長 北園福元氏 就任
平成21年3月19日　荒尾市教育委員会との連携協力協定締結
平成23年3月14日　荒尾市河川防災施設設置
　　4月1日　第9代校長に独立行政法人大学評価・学位授与機構理事 脇島健郎 就任
　　11月9日　創立50周年記念式典挙行
　　12月16日　竹頭制定




創造（2013.4～2024.3）

平成25年4月1日　機械工学科、電気工学科、電子情報工学科、物質工学科、建築学科の5学科を創設（5学
　　科1学科の改組
　　第11代校長に産業力育成型人間工高等専門学校機構理事・総括理事兼務副校長着任
　　高等専門学校校長 高橋義信氏
平成26年4月1日　本科情報技術特みらい学科コース（人工知能・ロボット関連）及び情報技術）が新設
　　学生サポートセンター設置
　　教育研究技術支援センターを技術部へ改組
平成26年11月9日　同校会「有友同志会」創立50周年を記念し、記門前の時計塔が寄贈された。
平成27年4月1日　第12代校長に熊本工業高等専門学校教授石坂尚宏氏着任
令和3年4月1日　人材育成部署
令和4年3月4日　情報処理センターを総合情報センターに改組
令和4年4月1日　第13代校長に新設本工業高等専門学校長大塚吉兆氏
　　情報処理センターを総合情報センターに改組
　　教育研究、図書館運営室設置
令和4年6月27日　「レイボーン型デジタル信号処理を活用した全モンゴル無線アンジェリ」国際協定を大学間で
　　等区大学、本村情報技術専攻、本校ハイブリッド締結
令和4年11月21日　スウェーデンNTTエンゴイド校と協定を締結
令和4年11月22日　スウェーデンNTTドコッカ校と協定を締結
令和5年2月14日　合同審査会議室、合同学術会室（本館内）スペース「ぎ」あんえび」公表会
令和5年4月1日　九大工学部・九州沖縄農業高等専門学校アドバイザー就任
令和5年4月1日　研究開発ラトゥーアスペンペーロ
令和5年9月20日　3年生インターンシップ海外研修実施
令和5年10月11日　創立70周年を記念し、海陽ホールで文化祭・サークル等が開催される。
令和5年12月23日　スウェーデンNTTルトゥクスヘと校と協定を締結
令和6年1月26日　スウェーデンNTTローダスタン校との協定を締結
令和6年1月31日　起業家工房開学式
令和6年3月13日　創立80周年記念し、同窓会「有友同志会」より本校へ多額の寄付金が贈られた。
令和6年3月23日　創立80周年記念「総括式」挙行





大牟田市・荒尾市の

はじめに

世界文化遺産　三池炭鉱関連資産

三池炭鉱関連施設の世界遺産としての価値






沿革 HISTORY

地域 A

National Institute of Technology (KOSEN)

Ariake College

150 Higashihagio-machi, Omuta-shi, Fukuoka,
Japan 836-8585
TEL：+81-944-53-8611　FAX：0944-53-1361
MAIL：www-admin@ariake-nct.ac.jp
HP：https://www.ariake-nct.ac.jp/

Ariake College　search