2025 College Bulletin

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College Bulletin

Mission

To develop highly qualified engineers that have a rich sense of humanity and creativity.
To contribute to the wealth and advancement of our local community
as a driving force of intellectual and technological progress.

National Institute of Technology,
Kagawa College

[Kagawa KOSEN]

Message from the President

National Institute of Technology, Kagawa College (Kagawa KOSEN) was established in October 2009 through the merger of Takamatsu National College of Technology and Takuma Denpa National College of Technology. KOSEN consists of seven departments: Mechanical Engineering, Electrical and Computer Engineering, Electro-Mechanical Systems Engineering, Civil Engineering in Takamatsu campus, as well as Communication Network Engineering, Electronic Systems Engineering, and Information Engineering in Takuma campus. It has been consistently training engineers who support the industry boost of Japan's economic growth. KOSEN consists of a five-year integrated associate degree course after graduating from junior high school and a two-year advanced course, intending to develop practical, creative and internationally active professional engineers.

The five-year associate degree program combines general education and specialized engineering education promoting practical education that emphasizes experiments, practical training as well as classroom education. Our college maintains a high ratio of job openings that are not affected by economic trends, and students are also able to enter the college's advanced courses or transfer to various universities nationwide. This variety of options is one of the characteristics of our technical college. In the two-year advanced course after the associate degree program, students can further develop their research skills and international perspectives through advanced specialized education. Under this integrated seven-year education program, students can obtain a bachelor's degree which is the same as graduating from a university. After that, students can pursue graduate school.

We also emphasize global education by offering overseas internships and training programs in collaboration with international partner schools, as well as by welcoming students from abroad. These programs are designed to enhance cross-cultural understanding and communication skills, preparing participants to succeed on the international stage.

Today, society is undergoing a major transformation. IoT, where a lot of information and electronic devices are connected via the Internet, and AI with learning capabilities are rapidly changing the lives of people around the world. Without a doubt, it is engineers who are leading the way. At Kagawa KOSEN, after firmly establishing basic science subjects and specialized engineering education, we nurture the next generation of engineers who can identify issues on their own, conceptualize solutions, and create innovations through team discussions in problem-solving programs in collaboration with local companies and entrepreneurs.

The faculty and staff of Kagawa KOSEN will work together to improve the quality of education and research, reform education to respond to changes in society, and strengthen regional cooperation. We appreciate your understanding and support.

Nobuo Araki
President

Mission and Educational Goals

■Mission of National Institute of Technology, Kagawa College : NITKC (Kagawa KOSEN)

○ To develop highly qualified engineers that have a rich sense of humanity and creativity.

○ To contribute to the wealth and advancement of our local community as a driving force of intellectual and technological progress.

■Educational Goals

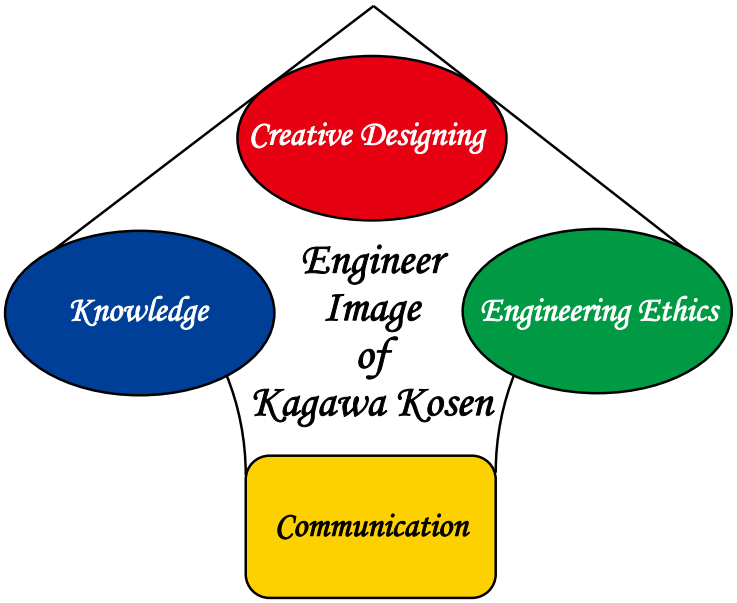
Kagawa KOSEN's educational objectives, based upon a detailed and comprehensive curriculum, are as follows:

◇ To broaden students' minds, with the aim that they will become engineers of the future that will play an instrumental role in a sustainable society.

◇ To train students to have the technological Knowledge and applicable skills for coping with these fast changing times.

◇ To train students to be engineers of the future, who can apply their imagination to tackle the complex problems of society.

◇ To develop the students' intellect, as well as communication skills, in order to prepare them for international career paths.



Contents

History

◇History

Takamatsu National College of Technology (Takamatsu KOSEN)※Takamatsu Campus of Kagawa KOSEN

April, 1962 Takamatsu National College of Technology(Takamatsu KOSEN) was established. It consisted of two departments: the Department of Mechanical Engineering and the Department of Electrical Engineering.

April, 1966 Takamatsu KOSEN was restructured into three departments: the Department of Mechanical Engineering, the Department of Electrical Engineering and the Department of Civil Engineering.

April, 1990 Takamatsu KOSEN was restructured into four departments: the Department of Mechanical Engineering, the Department of Electrical Engineering, the Department of Electro-Mechanical Systems Engineering and the Department of Civil Engineering.

April, 1999 Advanced Engineering Course was established.

April, 2001 Takamatsu KOSEN consisted of four departments: the Department of Mechanical Engineering, the Department of Electrical and Computer Engineering, the Department of Electro-Mechanical Systems Engineering and the Department of Civil Engineering.

April, 2004 Takamatsu KOSEN was reorganized and was affiliated with the Institute of National Colleges of Technology.

Takuma National College of Technology (Takuma Denpa KOSEN)※Takuma Campus of Kagawa KOSEN

October, 1943 Kanritsu Musen Densin Koshujo Osaka Branch (National School of Radio Telecommunications, Osaka Branch) was established at Yata-mura, Naka-Kawachi-gun, Osaka

April, 1945 Kanritsu Musen Densin Koshujo Osaka Branch was renamed Kanritsu Osaka Musen Densin Koshujo (Osaka National School of Radio Telecommunications).

April, 1949 Kanritsu Osaka Musen Densin Koshujo was relocated in Takuma-cho, Mitoyo-gun, Kagawa, and was renamed Takuma Denpa High School (Takuma Radio Technical High School).

April, 1971 Takuma Denpa High School became Takuma National College of Technology (Takuma Denpa KOSEN). It consisted of one department of Radio Engineering.

April, 1976 Takuma Denpa KOSEN was restructured into two departments: the Department of Radio Engineering and the Department of Electronics.

April, 1980 Takuma Denpa KOSEN was restructured into three departments the Department of Engineering, the Department of Electronics and the Department of Information Engineering.

April, 1985 Takuma Denpa KOSEN was restructured into four departments: the Department of Radio Engineering, the Department of Electronics, the Department of Information Engineering and the Department of Control Engineering.

April, 1989 The Department of Radio Engineering was renamed the Department of Telecommunication Technology.

April, 2004 Takuma Denpa KOSEN was reorganized and was affiliated with the Institute of National Colleges of Technology.
Advanced Engineering Course was established.

In October, 2009, Takamatsu KOSEN and Takuma KOSEN were incorporated and reorganized as National Institute of Technology, Kagawa College (Kagawa KOSEN). Two divisions including seven departments were set up: Industrial and Systems Division (Takamatsu Campus) and Electronics, Information and Communications Division (Takuma Campus).
The departments are as follows: Dpt of Mechanical Engineering, Dpt of Electrical and Computer Engineering, Dpt of Electro-Mechanical Systems Engineering and Dpt of Civil Engineering (Takamatsu Campus); Dpt of Communication Network Engineering, Dpt of Electronic Systems Engineering and Dpt of Information Engineering (Takuma Campus).
The Faculty of Advanced Engineering was also set up: Advanced Course in Industrial and Systems Engineering; Advanced Course in Electronics, Information and Communication Engineering.
Dr. Masashi Kamon was appointed as the first president of Kagawa KOSEN.

In January, 2013, a commemoration ceremony was held to celebrate the 50th anniversary of the Takamatsu Campus and the 70th anniversary of the Takuma Campus.

In April, 2014, Dr. Takeshi Yao was appointed as the second president of Kagawa KOSEN.

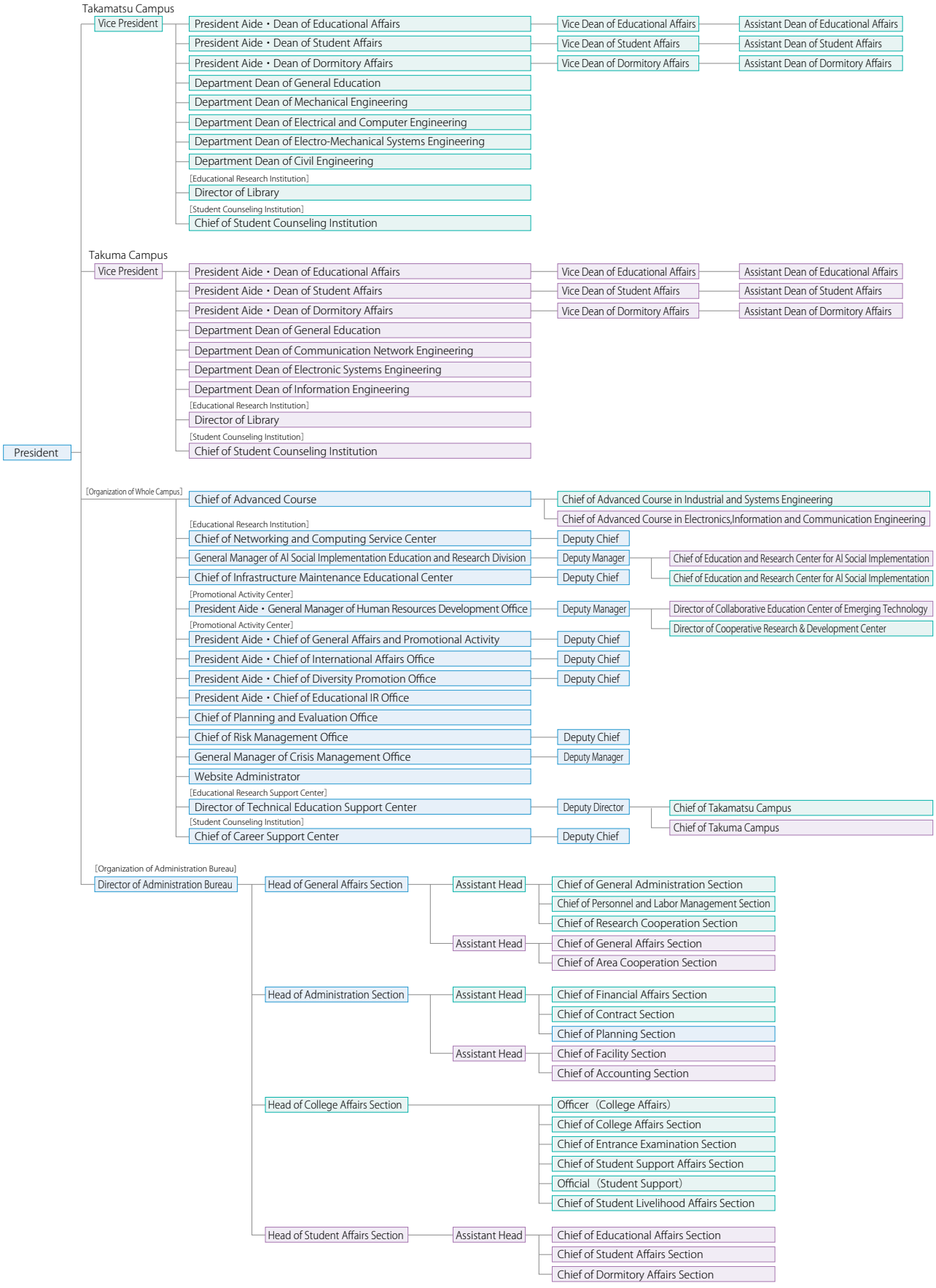
In April, 2018, Dr. Yoshio Aso was appointed as the third president of Kagawa KOSEN.

In April, 2021, Dr. Masao Tanaka was appointed as the fourth president of Kagawa KOSEN.

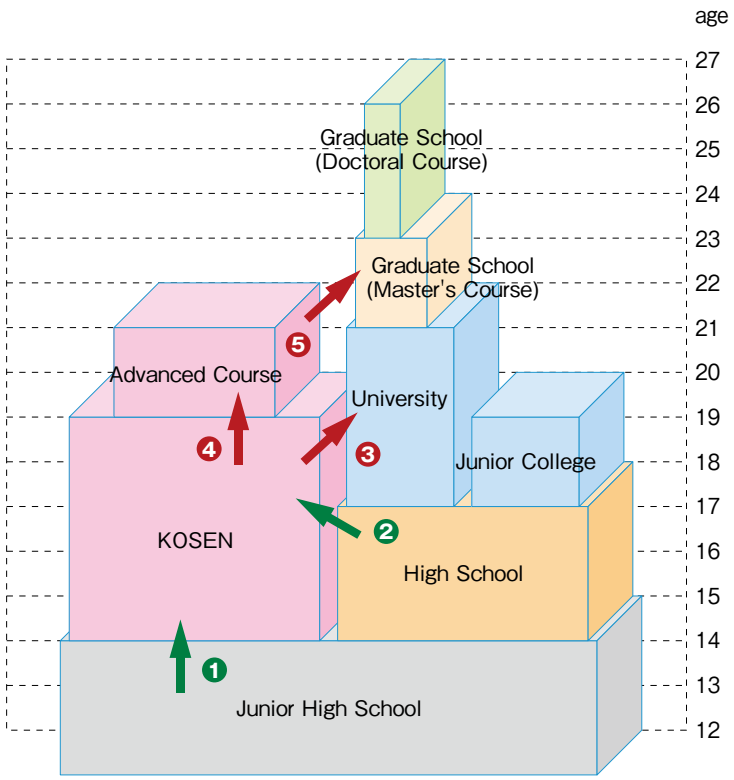
In April, 2024, Dr. Nobuo Araki was appointed as the fifth president of Kagawa KOSEN.

Organization

◇Chart of Organization



School System of Japan



1. Junior high school graduates are eligible to enroll at a KOSEN.
2. High school graduates are eligible to enroll at a KOSEN as transfer students.
3. KOSEN graduates are eligible to enroll in a university as transfer students.
4. KOSEN graduates are eligible to enroll in an advanced course.
5. KOSEN Advanced Course graduates are eligible to enroll in a university graduate program.

KOSEN System

KOSEN system — five-year engineering education from 15-year old — was established in 1961, in response to a strong demand from industrial sector to foster engineers who sustain Japanese high economic growth at that time.

Characteristics of KOSEN Education

Upon Admission

- We admit junior high school graduates
- We enable students to engage in career and life planning at a young age

In School

Practical and Innovative Education

- We develop an curriculum in the liberal arts and professional studies
- We have highly qualified teaching staff (more than 80% of specialized subject teachers have doctoral degree)
- We provide experimental and practical training, internship and coop education
- We provide programs accredited by JABEE
- We offer international exchange opportunities

Personality Development

- We offer student dormitories and extracurricular activities
- We hold Robot, Programming, Design and Speech contests
- We organize annual all KOSEN Athletics Competition

Upon Graduation

- We help students to find various career paths
- We produce engineers with extensive practical creativity

Departments

General Education

This division offers various arts and science subjects including physical education aimed at cultivating students with wide-ranging knowledge and basic understanding required for the study of engineering. Our curriculum covers that of senior high schools putting stress on mathematics and science, and also offers some courses at the college level to the senior students.

◇Fulltime Academic Staff in Department of General Education

[Takamatsu Campus]

Title	Name	Research Field
Prof.	OKANO, Hiroshi	Inorganic Materials Chemistry Thin Film Engineering
	TAGUCHI, Jun	History of Educational Thought
	NAKASE, Mikio	Sports Methodology Coach Methodology
	HASHIMOTO, Norifumi	Synthetic Organic Chemistry Catalytic Chemistry
	YOSHIZAWA, Kosei	Theory of Sports Training
Associate Prof.	KOSHOU, Kiyohiro	Pedagogy English Educarion
	YODA, Jun	European History
	SATO, Fumitoshi	Algebraic Geometry
Senior Lecturer	TOKUNAGA, Shintaro	TESOL, East Asian History
	NOGUCHI, Naoshi	Japanese Literature
	TACHIKAWA, Naoki	Electrochemistry Lithium Battery
	NODA, Kazuto	Condensed Matter Theory
	MORISHITA, Jiro	American Studies
	UETOKO, Takahiro	Particle Physics
	KUWATA, Ken	Mathematical Physics
Assistant Prof.	KOMEIJI, Tatsuki	Japanese Woodblock-printed Book(Ukiyo-e, E-hon)
	OOISHI, Kenta	Partial differential equation

[Takuma Campus]

Title	Name	Research Field
Prof.	MINAMI, Takayuki	Differential Equation Hamiltonian System
	UCHIDA, Yuriko	Japanese History Women's Studies
	ARIMA, Hirotoshi	Methodology of Coaching
	FUJIHARA, Nobuhiro	Japanese Literature
	HASHIMOTO, Ryuta	Number Theory Continued Fraction
	UEHARA, Shigenori	Geometric Topology General Topology
	MORI, Kazunori	English Teaching, CALL
Associate Prof.	YOKOYAMA, Manabu	Methodology of Sports Training Health Education
	TAKENAKA, Kazuhiro	Synthetic Organic Chenistry, Organometallic Chemistry
	SIMIZU, Ikko	Astrophysics
	MORIOKA, Takaaki	Teaching English to Speakers of Other Languages
Senior Lecturer	TAMURA, Masaki	Indian Philosophy Buddhist Studies
Assistant Prof.	TAKAGI, Ren	Differential Geometry Submanifold Theory
	TERAO, Honoka	Japanese Literature


Learning English by a Native Speaker


Department of General Education


A Lesson in the Multimedia Room


Physics laboratory

◇Curriculum

Compulsory Subject	Credits
Japanese Ⅰ-Ⅲ	6
Japanese	2
Society Ⅰ-Ⅱ	4
Mathematics ⅠA	2
Mathematics ⅠB	2
Mathematics ⅠC	2
Mathematics ⅠD	2
Mathematics ⅡA	2
Mathematics ⅡB	2
Mathematics ⅡC	2
Mathematics ⅡD	2
Mathematics ⅢA	2
Mathematics ⅢB	2
Physics Ⅰ-Ⅱ	4
Chemistry Ⅰ-Ⅱ	4
Health and Physical Education Ⅰ-Ⅲ	6
English ⅠA	2
English ⅠB	2
English ⅡA	2
English ⅡB	2
English ⅢA	2
English ⅢB	2
Communication & Expression Ⅰ-Ⅱ	4
Art	2

Department of General Education in Spring

Collaborative Learning

[Takamatsu Campus]

Elective Subject	Credits
Literature Ⅰ	2
Human Science Ⅰ-Ⅲ	6
Social Science Ⅰ-Ⅲ	6
General Chemistry Ⅰ-Ⅱ	4
Phyisical Education Ⅰ-Ⅱ	2
English ⅣA	2
English ⅣB	2
English ⅤA	2
English ⅤB	2
Language Seminar Ⅰ-Ⅳ	8
Overseas English Program	1

[Takuma Campus]

Elective Subject	Credits
Human Science Ⅰ-Ⅳ	8
Social Science Ⅰ-Ⅳ	8
Topics in Natural Science	2
Physical Education Ⅰ, Ⅱ	4
English for Specific Purposes Ⅰ, Ⅱ	4
Chinese Ⅰ, Ⅱ	4
Overseas English Program	1
Teaching Support Activity	1

◇Main Experiment Facilities

	Room	Main Equipment
Takamatsu Campus	Physics Laboratory	High Vacuum Pump, Spectroscope, Induction Coil
	Chemical Laboratory	Sputtering System, PH Meter, Draft Chamber with Scrubber
	Language Laboratory	46 booths, 46 Computers, e-learning

	Room	Main Equipment
Takuma Campus	Physics Laboratory	Audio-visual Equipment, Measurement Device of Specific Charge
	Chemistry Laboratory	Ultra Pure Water Production System, Draft Chamber with Scrubber, Drying Oven
	Multimedia Learning Laboratory	48 booths (BYOD), e-learning

Industrial and Systems Engineering Division
(Takamatsu Campus)

Department of Mechanical Engineering

Mechanical engineers play a vital role in product design, development and manufacturing of industrial products in the modern industrial world as well as new challenges in developing countries.
Our educational program is designed to develop creative mechanical engineers who will excel in the industrial world and fulfill their personal desire to leave a legacy of successful accomplishments.

◇Fulltime Academic Staff

Title	Name	Research Field
Prof.	KOJIMA,Takafumi	Thermodynamics Heat Transfer Engineering
	YOSHINAGA, Shinichi	Control Engineering
	JODAI, Yoshifumi	Fluids Engineering
Associate Prof.	TOKUDA, Taro	Strength of Matcrials Fracture Mechanics
	TAKAHASHI, Yoichi	Precision Machining　Forming Processes
	MAEDA, Yusaku	Sensor Engineering
Senior Lecturer	KIMURA, Yuto	Computational Mechanics
	TAKATANI, Hideaki	Robotics State Estimation
Assistant Prof.	FUJIOKA, Genko	Compasite material, Sensor engineering


Bending Test of Metallic Materals


Graduation Research


Computer Aidded Design & Drafting


Solar Car and Eco Car

◇Curriculum

Classification	Subject	Credits
Compulsory	Engineering Literacy	2
	Applied Mathematics Ⅰ	2
	Applied Mathematics Ⅱ	2
	History of Science and Technology	1
	Intellectual Property	1
	Exercise of Mechanical Engineering Ⅰ	1
	Exercise of Mechanical Engineering Ⅱ	1
	Engineering Mechanics Ⅰ	2
	Strength of Materials Ⅰ	2
	Strength of Materials Ⅱ	2
	Thermodynamics	2
	Hydraulics	2
	Mechanical Vibrations	2
	Working Technology	2
	Machine Element Design Ⅰ	1
	Machine Element Design Ⅱ	2
	Material Science and Engineering	2
	Electrical Engineering	1
	Control Engineering Ⅰ	1
	Fundamental Programming	2
	Numerical Methods	2
	Mechanical Design and Drafting Ⅰ	2
	Mechanical Design and Drafting Ⅱ	2
	Computer Aided Design and Drafting Ⅰ	3
	Fundamental of Working Exercise Ⅰ	3
	Fundamental of Working Exercise Ⅱ	3
	Fundamental of Working Exercise Ⅲ	2
	Mechanical Experiment Ⅰ	3
	Mechanical Experiment Ⅱ	3
	Graduation Research	8

Classification	Subject	Credits
Elective	Applied Mathematics Ⅲ	2
	Engineering Mechanics Ⅱ	2
	Strength of Materials Ⅲ	2
	Theory of Elasticity	2
	Heat Transfer Engineering	2
	Fluids Dynamics Ⅰ	2
	Electronics	2
	Computer Engineering	2
	Mechanism	2
	Computational Mechanics	2
	Computer Aided Design and Drafting Ⅱ	4
	Technical English	2
	Heat Engines	2
	Control Engineering Ⅱ	2
	Fluids Dynamics Ⅱ	2
	Job Training	1
	Special Lecture Ⅰ	1
	Special Lecture Ⅱ	1
	Special Lecture Ⅲ	1
	Special Lecture Ⅳ	1
	Pre-research Activity Ⅰ	1
	Pre-research Activity Ⅱ	1
	Pre-research Activity Ⅲ	1
	Advanced Programming Training Ⅰ	4
	Advanced Programming Training Ⅱ	4
	Advanced Programming Training Ⅲ	4

◇Main Experiment Facilities

Room	Main Equipment
Workshop Lab.	Ultra-Precision Machine, Wire-Cut EDM Systems, Hobbing Machine, Precision Lathe
Mechanical Measurment Lab.	Non-Contact 3D Measuring Machine, Surface Finishing Indicator, Micro Hardness Tester
Material Testing Lab.	Universal Materials Testing Machine, Fatigue Testing Machine, Torsion Tester, Charpy Impact Tester
Materrial Lab.	Optical Microscope, Electric Furnace, Hardness Tester, SPD Equipment
Research Space Lab.	Hydraulic Servo-Mechanical Fatigue Testing Machine
Vibration Engineering Lab.	Vibration System, Vibration Meter
Wind Tunnel Lab.	Low Turbulent Wind Tunnel (40 m/s), Hot Wire Anemometer
Thermal Engineering Lab.	Heat Exchanger Testing Equipment
Internal Combustion Engine Lab.	Internal Combustion Engine Performance Testing Equipment, Engine Combustion Analysis System, Exhaust Gas Analyzer
Control Lab.	DC Servo Motor Testing System, Oscilloscope
Electronics Lab.	Oscilloscope, Digital Multi-Meter, Function Generator, DC Power-Supply Unit
Machine Shop	Lathe, Machining Center, CNC Lathe, Milling Machine, Grinding Machine, Crucible Furnace, Welding Equipment, Hydraulic Press
Drafting Room, CAD Room	Drafting Desks and Machines, Sketching Goods and Models, CAD System, 3D Printer

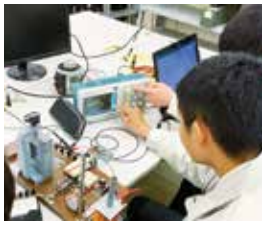
Department of Electrical and Computer Engineering

The department of electrical and computer engineering intends to educate the engineers who can contribute to the high technological society. For this purpose, the educational curriculum is designed to include the fundamental of mathematics and physics in the first stage, and applied technologies are programmed in the next stage. Furthermore, teamwork and cooperativeness, which are necessary in the social works, will be introduced in the various experiments and circuit design. Major parts of these subjects consist of the technologies of the embedded system.

◇Fulltime Academic Staff

Title	Name	Research Field
Prof.	SHIGETA, Kazuhiro	Information and Communication Engineering Educational Technology
	TUJI, Masatoshi	Electronic Circuit Microwave Engineering
	URUSHIHARA, Shiro	Motion Control Control Engineering
	TARAO, Hiroo	Electromagnetic Compatibility, Bioelectromagnetics
	NAKAMURA, Atsunobu	Electric Materials
Associate Prof.	MURAKAMI, Yukikazu	Educational Technology
	KAKIMOTO, Takeshi	Software Development Management
	YAMAMOTO, Masashi	Material Science
	KITAMURA, Daichi	Statistical Signal Processing, Machine Learning
Senior Lecturer	YOSHIOKA, Takashi	Motion Control Motor Drive
Assistant Prof.	HINAMOTO, Yoichi	Digital Signal Processing


Lecture (logic circuits)


Experiment of Electronics


Plactice of Information Processing


Presentation of Circuit Design

◇Curriculum

Classification	Subject	Credits
Compulsory	Engineering Literacy	2
	Applied Mathematics Ⅰ	2
	Applied Mathematics Ⅱ	2
	History of Science and Technology	1
	Intellectual Property	1
	Fundamentals of Electrical and Computer Science Ⅰ	4
	Fundamentals of Electrical and Computer Science Ⅱ	4
	Fundamentals of Electricity	4
	Fundamentals of Electronics	4
	Electromagnetics Ⅰ	2
	Electrical Circuits Ⅰ	2
	Logic Circuits	2
	Fundamentals of Information Processing	4
	Electronic Circuits Ⅰ	1
	Information Mathematics	1
	Creative Engineering Experiment Training Ⅰ	2
	Creative Engineering Experiment Training Ⅱ	4
	Experiments on Electrical and Computer Science Ⅰ	4
	Experiments on Electrical and Computer Science Ⅱ	4
	Applied Experiments on Electrical and Computer Science	4
	Graduation Research	8
	Design of Circuits	2

Classification	Subject	Credits
Elective	Introduction of Semiconductor Physics	2
	Electromagnetics Ⅱ	2
	Electrical Circuits Ⅱ	2
	Instrumentation Engineer	2
	Electrical and Electronic Materials	2
	Electronic Circuits Ⅱ	2
	Electronic Circuits Ⅲ	2
	Energy Conversion Engineering	2
	Control Engineering	2
	Electronic Devices	2
	Communication Engineering	2
	Information and Communication Network	2
	Algorithms	2
	Computer Architecture	2
	Operating System	2
	Signal Processing	2
	Information and coding theory	2
	Intelligence Information Processing	2
	Numerical Simulation	2
	Statistical Data Processing	2
	Technical English	2
	Job Training	1
	Special Lecture Ⅰ	1
	Special Lecture Ⅱ	1
	Special Lecture Ⅲ	1
	Special Lecture Ⅳ	1
	Pre-research Activity Ⅰ	1
	Pre-research Activity Ⅱ	1
	Pre-research Activity Ⅲ	1
	Advanced Programming Training Ⅰ	4
	Advanced Programming Training Ⅱ	4
	Advanced Programming Training Ⅲ	4

◇Main Experiment Facilities

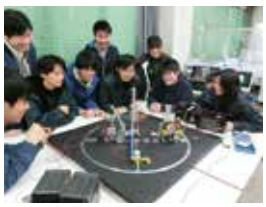
Room	Main Equipment
Measurement Control Lab.	SCR Inverter, Electric Machine Training System, He-Ne Laser, Optical Power
Electronics and Information Lab.	Curvetracer, Oscilloscope, Logic Analyzer, Microwave Measuring System, Print Board Fabrication System, Optical Communication/Optical Fiber Communication System
Materials Lab.	Lock-in Amplifier, Ultra High Resistance Meter, Liquid Nitrogen Cryostat, Thickness Meter, Green Laser
Power Electronics Lab.	Ball screw mechanical system with AC servo motor, Induction motor control system
Electromagnetic Compatibility Lab.	Uniform Magnetic Field Exposure System, Magnetic Field Measurement Device, Work Station
Electronics Lab.	Oscilloscope, Function Generator, DC Power supply, Q Meter, Digital Frequency Counter, Pulse Circuit Trainer
Acoustical Information Lab.	Anechoic Chamber, Acoustic Measuring System, Ultrasound Detector
Computer and Communication Engineering Lab.	Logical Circuit Experiment Apparatus, Semiconductor Element Experiment Apparatus, Arithmetic Circuit Trainer, AD/DA Converter Trainer, Logic Analyzer

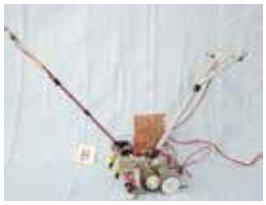
Department of Electro-Mechanical Systems Engineering

The department has a curriculum to educate students standing on mechatronics which is a combined engineering field that consists of mechanics, electronics, control engineering and computer science. The students are expected to have the role of not only simple manufacturing but also design & development, quality management, maintenance & inspection and so on in the production process.

◇Fulltime Academic Staff

Title	Name	Research Field
Prof.	TOKUNAGA, Hidekazu	Conputational Learning Theory Web Mining
	SOUMA, Takeshi	Energy Engineering Energy Materials
	SHIMASAKI, Shin-ichi	Electromagnetic Processing of Materials
	SHOBAKO, Shinichiro	Welding & Joining Arc Plasma
Associate Prof.	YURA, Satoshi	Control Engineering Motion Control
	ISHII, Kohei	Biomedical Engineering
Senior Lecturer	TSUMORI, Nobuhiro	Nanophotonics Near-field Optics
	YAMASHITA, Tomohiko	High Voltage Engineering, Pulsed Power
	KADOWAKI, Jun	Soft robot, Pneumatic rubber muscle
Assistant Prof.	KAWAKAMI, Yusuke	Kansei Engineering, Signal Processing


Checking Robots


An Autonomous Robot


Working with Lathe Machine


Checking Electronic Components

◇Curriculum

Classification	Subject	Credits
Compulsory	Engineering Literacy	2
	Applied Mathematics Ⅰ	2
	Applied Mathematics Ⅱ	2
	History of Science and Technology	1
	Intellectual Property	1
	Electromagnetics Ⅰ	2
	Manufacturing Processes	2
	Fundamental Mechanics	2
	Engineering Materials Ⅰ	2
	Mechanical Engineering Design	2
	Mechanics of Materials Ⅰ	2
	Thermal Engineering Ⅰ	1
	Fluid Engineering Ⅰ	1
	Electric and Electronic Circuits Ⅰ	2
	Information Processing on Basis	2
	Mechatronics Ⅰ on Basis	3
	Mechatronics Ⅱ on Basis	3
	Mechatronics Ⅲ on Basis	3
	Mechatronics System Design	2
	System Control Engineering Ⅰ	2
	Technical Japanese Rhetoric	1
	Training and Exercise Ⅰ on MONOZUKURI Basis	3
	Training and Exercise Ⅱ on MONOZUKURI Basis	3
	Training and Exercise Ⅲ on MONOZUKURI Basis	2
	Experiment Ⅰ	4
	Experiment Ⅱ	4
	Graduation Research	8

Classification	Subject	Credits
Elective	Mechanics of Materials Ⅱ	2
	Engineering Materials Ⅱ	2
	Thermal Engineering Ⅱ	2
	Fluid Engineering Ⅱ	2
	Electric and Electronic Circuits Ⅱ	2
	Information Processing A	2
	Information Processing B	2
	System Control Engineering Ⅱ	2
	Mechanical Dynamics	2
	Robotics	2
	Mechanical Instrumentation	2
	Statistical Analysis	2
	Technical English	2
	Electromagnetics Ⅱ	2
	Semiconductor Engineering on Basis	2
	Electronic Instrumentation	2
	Sensor Devices	2
	Job Training	1
	Special Lecture Ⅰ	1
	Special Lecture Ⅱ	1
	Special Lecture Ⅲ	1
	Special Lecture Ⅳ	1
	Pre-research Activity Ⅰ	1
	Pre-research Activity Ⅱ	1
	Pre-research Activity Ⅲ	1
	Advanced Programming Training Ⅰ	4
	Advanced Programming Training Ⅱ	4
	Advanced Programming Training Ⅲ	4

◇Main Experiment Facilities

Room	Main Equipment
Engineer Material Lab.	Optical Microscope, Electric Furnace, Video Microscope, Vickers Brinell and Rockwell Hardness Tester, SPD Equipment
Mechanics of Material Lab.	300kN Universal Testing Machine, Torsion Tester Charpy Impact Testing Machine, Rotating Bending Fatigue Testing Machine
Thermal Engineering Lab.	High-frequency Induction Furnace, Electrometer, Laser Displacement Sensor, High-speed Camera, Heat Exchanger Testing Equipment
Electronics Lab./Electronic Control Lab.	Oscilloscope, Digital Multi-Meter, Function Generator, Electronic Voltmeter, Universal Counter, DC Power-Supply Unit, PCB-CAD/CAM
CAD Room	Video Projector, Personal Computer, 3D CAD
Exercise Room	Video Projector, Personal Computer, 3D CAD, 3D Printer
Control Lab.	Temperature Control Testing System, Water Level Control Testing System
FA Training Factory	3D Modeling Machine, Vertical Milling Machine, Drilling Machine, Band Sawing Machine
Measuring Lab.	Air Micrometer, Micro-Indicator, Tool Micrometer Microscope
Training Factory	Engine Lathe, Drilling Machine, Universal Milling Machine Universal Band Sawing Machine, Machining Center, Welders

Department of Civil Engineering

The department of civil engineering is working on fostering engineers who can contribute to the construction of infrastructure supporting safe and comfortable lives of citizens and the maintenance of the natural environment which is also deeply related to the construction of infrastructure.

◇Fulltime Academic Staff

Title	Name	Research Field
Prof.	MUKAITANI, Mitsuhiko	Geotechnical Engineering Geoenvironmental Engineering
	ARAMAKI, Noritaka	Geotechnical Engineering Resource Development Engineering
	MIYAZAKI, Kosuke	Infrastructure Planning Transportation Planning
	TAGAWA, Tadashi	Sanitary Engineering Environmental Engineering
	YANAGAWA, Ryoichi	Coastal Disaster Management Engineering Coastal Ecosystem Engineering
Associate Prof.	HAYASHI, Kazuhiko	Concrete Engineering Maintenance Engineering
	TAKAHASHI, Naoki	Hydraulic Engineering Ecological Engineering
	HASEGAWA, Yuki	Concrete Engineering Agricultural Engineering
Senior Lecturer	IMAOKA, Yoshiko	Urban Planning Welfare Engineering
Assistant Prof.	MATSUMOTO, Masayuki	Earthquake engineering Seismic engineering


Loading of steel structure


Surveying


Hydraulic Experiment


Numerical Model Analysis

◇Curriculum

Classification	Subject	Credits
Compulsory	Engineering Literacy	2
	Applied Mathematics Ⅰ	2
	Applied Mathematics Ⅱ	1
	History of Science and Technology	1
	Intellectual Property	1
	Structural Mechanics Ⅰ	2
	Structural Mechanics Ⅱ	2
	Structural Mechanics Ⅲ	1
	Structural Design Ⅰ	2
	Construction Materials	2
	Soil Mechanics Ⅰ	1
	Soil Mechanics Ⅱ	1
	Construction Management	1
	Hydraulics Ⅰ	1
	Hydraulics Ⅱ	1
	River and Coastal Engineering Ⅰ	1
	Environmental Engineering Ⅰ	2
	Environmental Engineering Ⅱ	1
	Information Processing Ⅰ	2
	Information Processing Ⅱ	2
	Surveying Ⅰ	2
	Planning Ⅰ	1
	Planning Ⅱ	1
	Design and Drawing Ⅰ	1
	Design and Drawing Ⅱ	1
	Civil Experiments and Exercises Ⅰ	4
	Civil Experiments and Exercises Ⅱ	2
	Civil Experiments and Exercises Ⅲ	4
	Civil Experiments and Exercises Ⅳ	4
	Civil Experiments and Exercises Ⅴ	3
	Introduction of Civil Engineering	2
	Current Topics on Civil Engineering	1
	Engineering Study with Creative Training	1
	Graduation Research	8

Classification	Subject	Credits
Elective	Structural Design Ⅱ	2
	Soil Mechanics Ⅲ	2
	River and Coastal Engineering Ⅱ	2
	Applied Mechanics	2
	Environmental Engineering Ⅲ	2
	Environmental Impact Assessment	2
	Information Processing Ⅲ	2
	Surveying Ⅱ	2
	Disaster Prevention Engineering	2
	Applied Mathematics Ⅲ	2
	Technical English	2
	Job Training	1
	Special Lecture Ⅰ	1
	Special Lecture Ⅱ	1
	Special Lecture Ⅲ	1
	Special Lecture Ⅳ	1
	Pre-research Activity Ⅰ	1
	Pre-research Activity Ⅱ	1
	Pre-research Activity Ⅲ	1
	Advanced Programming Training Ⅰ	4
	Advanced Programming Training Ⅱ	4
	Advanced Programming Training Ⅲ	4

◇Main Experiment Facilities

Room	Main Equipment
Structural Engineering Lab.	Static and dynamic loading machine, Beam testing machines, Servo-type 1D&2D shaking tables, 2D soil tanks
Materials Engineering Lab.	Automatic compression testing machine (Cap. of 3000kN), Universal testing machine (Cap. of 1000kN), Concrete mixer, Oil jacks and oil pumps, Concrete cylinder end grinder, Freezing and thawing machine, Testing apparatuses for various concrete, Concrete curing water bath
Hydraulic Engineering Lab.	Three dimensional channel, Movable channels, Wave making channels, Shape-created weir, Pipe line with a Venturi meter, Wave height indicators, Various recorders
Geotechnical Engineering Lab.	Automatic consolidation testing apparatus, Universal compression testing apparatus, Cyclic triaxial compression test apparatus, Large-scaled universal direct shear apparatus, Falling head permeability test apparatus, B-type viscometer, High speed camera, Various soil testing apparatus
Environmental Engineering Lab.	Total organic carbon analyzer, Ion chromatograph, Gas chromatograph, Autoclaves, Centrifuge, Ultra pure water system, Electronic scale, Constant temperature ovens
Equipment room	Global Navigation Satellite Systems, Geographic Information System, Remote Sensing, Total station, Digital type theodolites(4set), Automatic levels, Electro-optical distance meters(4set), Plane table, Pranimeters, Stereoscope

Department of Communication Network Engineering

Both modern industry and society rely heavily on telecommunication systems, which are also known as a "neural network" of society. The constituents of the systems are electric wires, optical fibers and electromagnetic waves, as well as a great deal of computers. The aim of the Department of Communication Network Engineering is to foster competent engineers in this promising field of telecommunications. The curriculum is organized so that students can qualify for various national licenses such as an On-the-Ground I-Category Special Radio Operator, or a First-Class Technical Radio Operator for On-the-Ground Services.

◇Fulltime Academic Staff

Title	Name	Research Field
Prof.	INOUE, Tadaaki	Communications Measurement
	ISSHIKI, Hiromi	Biomedical Engineering
	ONO, Akira	Telecommunication Electronic Circuit
	SHIRAISHI, Keiichi	Computer Algebra e-Learning
Associate Prof.	MANABE, Katsuya	Electromagnetic Theory Microwave Theory and Techniques
	TAKAJO, Hideyuki	Educational Technology Ubiquitous Computing
	SHOHON, Toshiyuki	Coding Theory Communication Engineering
	KUMEKAWA, Kazuya	Computer Networks
	KAWAKUBO, Takashi	Field Emission Surface Physics
Assistant Prof.	URAKAMI, Taisei	Wireless Communication Antennas and Propagation


Wireless Communication Experiment


Optical Fiber Communication


Radar Detection


Computer Network Experiment

◇Curriculum

Classification	Subject	Credits
Compulsory	Applied Mathematics	2
	Probability and Statistics	2
	Applied Physics Ⅰ	2
	Electric Engineering	2
	Information Processing Ⅰ	2
	Information Processing Ⅱ	2
	Digital Circuits Ⅰ	2
	Electric Circuits Ⅰ	2
	Electric Circuits Ⅱ	2
	Electric CircuitsA	2
	Electromagnetics Ⅰ	2
	Electromagnetics Ⅱ	2
	Electronic Circuits Ⅰ	2
	Electronic Circuits Ⅱ	2
	Electric and Electronic Measurements Ⅰ	2
	Electronics	2
	Wireless Communication Engineering Ⅰ	2
	Seminar on Communication Engineering	4
	Fundamental Engineering Exercises	2
	Engineering Exercise	2
	Creative Experiments and Practices	4
	Experiments and Practices	2
	Experiments in Communication Network Engineering	2
	Experiments in Communication Engineering Ⅰ	4
	Experiments in Communication Engineering Ⅱ	4
	Graduation Research	8
Elective	Applied Physics Ⅱ	2
	Information Processing Ⅲ	2
	Electric and Electronic Measurements Ⅱ	2
	Wireless Communication Engineering Ⅱ	2
	Antennas and Propagation Ⅰ	2
	Antennas and Propagation Ⅱ	2
	Communication SystemA	2
	Communication SystemB	2
	Tlecommunications Law Ⅰ	2
	Tlecommunications Law Ⅱ	2
	Computer Networks Ⅰ	2
	Computer Networks Ⅱ	2
	Information Theory	2
	Seminar on Radio Engineering	2
	Data Communications	2
	Optoelectronics	2
	Mathematics for Information Science	2
	Information Security	2
	Network Programming	2
	Internship	1
	Special Lectures Ⅰ	1
	Special Lectures Ⅱ	1
	Pre-research Activity Ⅰ	1
	Pre-research Activity Ⅱ	1
	Pre-research Activity Ⅲ	1
	Research Fundamentals Ⅰ	1
	Research Fundamentals Ⅱ	1
	Research Fundamentals Ⅲ	1
	AI Ⅰ	1
	AI Ⅱ	1
	AI Ⅲ	1
	AI Ⅳ	1

◇Main Experiment Facilities

Room	Main Equipment
Electromagnetic Anechoic Chamber	EMI(Electromagnetic Interference)Receiver, CVCF(Constant-voltage Constant-Frequency)Power Supply, BiLog Antenna, Artificial Mains Network, Absorbing Clamp, Turn Table, Vector Network Analyzer
Applied Electromagnetic Wave Lab.	Radar, Satellite Compass, AIS(Automatic Identification System)Receiver, Radio Direction Measurement Equipment, Radio Transmitter, Radio Receiver
Photonics Lab.	Sampling Oscilloscope, Spectrum Analyzer, EO Converter, OE Converter, OTDR(Optical Time Domain Reflectometer)
3rd Fundamental Communication Eng. Lab.	Pulse Pattern Generator, Error Rate Detector, Optical Spectrum Analyzer
Information Network Exercise Room	Training Equipments for LAN(Local Area Network)Integration(Routers, Switching Hubs, Wireless LAN Access Points, Personal Computers), Microcomputer Development and Training System

Department of Electronic Systems Engineering

In light of the advancements of mechatronics and Information technologies, there is a large demand for engineers in the development and integration of computer science, robotic systems and telecommunications.
The program in our department is designed to offer students many options from various fields such as hardware, software, electronics and communication technologies. We combine theory and practical application in the same course which provides practical laboratory experience. Our goal is to cultivate ingenuity and innovation in our students and provide them with all skills necessary for a successful career in the electronics industry.

◇Fulltime Academic Staff

Title	Name	Research Field
Prof.	MISAKI, Yukinori	Robot Engineering
	YAGI, Masakazu	Solid State Physics
Associate Prof.	TSUKIMOTO, Isao	Electronic Circuits
	MIKAWA, Michio	Solid State Physics
	JOHNSTON, Robert Weston	Embedded Systems
	SHIMIZU, Tomo	Semiconductor Devices
	MORIMUNE, Taichiro	Solid State Physics
	IWAMOTO, Naoya	Semiconductor Devices
Senior Lecturer	ONISHI, Akinari	Assistive Technology
	YOSHIOKA, Genta	Human Robot Interaction


Robot Manufacture Experiment using MINDSTORMS


Fundamental Electronic Circuit Experiments in English


Digital Circuit Manufacture Experiment using VHDL (in 5th Grade)


Graduation Work with Region Cooperation (in 5th Grade)

◇Curriculum

Classification	Subject	Credits
Compulsory	Applied Mathematics	2
	Probability and Statistics	2
	Applied Physics Ⅰ	2
	Electric Engineering	2
	Electric Circuits Ⅰ	2
	Electric Circuits Ⅱ	2
	Fundamental Electric Circuits	4
	Electromagnetics Ⅰ	2
	Electromagnetics Ⅱ	2
	Elecronics	2
	Electronic Circuits Ⅰ	2
	Electronic Circuits Ⅱ	2
	Semiconductor Electronics	2
	Semiconductor Device Engineering	2
	Digital Circuits Ⅰ	2
	Digital Circuits Ⅱ	2
	Elecronic Measurements	2
	Control Engineering Ⅰ	2
	Information Processing Ⅰ	2
	Information Processing Ⅱ	2
	Electronic Systems Engineering Seminar	4
	Fundamental Engineering Exercises	2
	Creative Experiments and Practices	4
	Experiments and Practices	2
	Experiments in Elecrtonic Engineering	4
	Experiments in Electronic Engineering Ⅰ	4
	Experiments in Electronic Engineering Ⅱ	4
	Graduation Research	8
Elective	Applied Physics Ⅱ	2
	Electric Circuits Ⅲ	2
	Solid State Physics	2
	Optoelectronics	2
	Electrical and Electronic Materials	2
	Control Engineering Ⅱ	2
	Robot Engineering	2
	Sensor Electronics	2
	Special Lecture in Electronic Systems Engineering	2
	Information System	2
	Communication SystemA	2
	Information Processing Ⅲ	2
	Data Communications	2
	Image Processing Technology	2
	System Engineering	2
	Internship	1
	Special Lectures Ⅰ	1
	Special Lectures Ⅱ	1
	Pre-research Activity Ⅰ	1
	Pre-research Activity Ⅱ	1
	Pre-research Activity Ⅲ	1
	Research Fundamentals Ⅰ	1
	Research Fundamentals Ⅱ	1
	Research Fundamentals Ⅲ	1
	AI Ⅰ	1
	AI Ⅱ	1
	AI Ⅲ	1
	AI Ⅳ	1

◇Main Experiment Facilities

Room	Main Equipment
Common Lab.	Liquid Crysta, Tunable Filters,Cooled CCD Camera,Multispectral Imaging System, Hyperspectral Camera
Measurement Engineering Lab.	Equipment of Supply Current Test to Detect Lead Opens of CMOS ICs, Oscilloscope, Current Probe
Computer Engineering Lab.	Oscilloscope, Radiation Detector, Analog Waveform Processing System
Circuit Design Lab.	Photoelectron Yieid Spectroscopy, UV-VIS NIR Spectrophotometer, Organic Thin Film Deposition Apparatus, Spectroscopic Reflectometer, Laser Micro-machining Apparatus, Atomic Force Microscope
Optoelectronics Lab.	Fluorometer, Quantum efficiency measurement system, Diffraction-grating monochromator, He-Cd laser, Ar ion laser, Cryogenic refrigerator
Electronics Lab.	Infrared Thermal Camera, 3D Printer, 3D Scanner, Tabletop Microscope, Non-Mydriatic Auto Fundus Camera, Pulse Oximeter
Materials Engineering Lab.	Pulsed Laser Depositon System, Sputtering Apparatus, Hall Effect Measurement System, X-ray Diffraction Equipment
Plasma Sinering Lab.	Spark Plasma Sinering System

Department of Information Engineering

The department offers students an opportunity to acquire the theoretical fundamentals of computer science, and learn how to apply this practical knowledge to everyday problems. The department aims to educate the students to be able to perform tasks such as the following:
-Information system development
-Application development and integration, such as sound and image processing, computer networking.

◇Fulltime Academic Staff

Title	Name	Research Field
Prof.	MIYATAKE, Akiyoshi	Educational System Engineering
	TOKUNAGA, Shuichi	Image Processing
	KAWATA, Jun	Plasma Surface Interaction
	KANAZAWA, Keizo	Image Processing
	KAWAZOME, Hayato	Plasma Spectroscopy
Associate Prof.	KONDOH, Yuji	Computer Algebra
	OKUYAMA, Shingo	Algebraic Topology
	TIN HTAY HLAING	Natural Language Processing
	SASAYAMA, Manabu	Information Retrieval Machine Translation
Senior Lecturer	MIYAZAKI, Takahiro	Remote Sensing

◇Curriculum

Classification	Subject	Credits
Compulsory	Applied Mathematics	2
	Probability and Statistics	2
	Applied Physics Ⅰ	2
	Electric Engineering	2
	Electric Circuits Ⅰ	2
	Electronic Circuits Ⅰ	2
	Digital Circuits Ⅰ	2
	Digital Circuits Ⅱ	2
	Information Engineering	2
	Computer Architecture	2
	Information Processing Ⅰ	2
	Information Processing Ⅱ	2
	Software Design and Development	4
	Communicaion Theory	2
	Data Structures and Algorithms	2
	Compiler	2
	Seminar on Information Engineering	6
	Fundamental Engineering Exercises	2
	Information Engineering Exercises	2
	Creative Experiments and Practices	4
	Experiments and Practices	2
	Experiments in Information Engineering	2
	Experiments in Information Engineering Ⅰ	4
	Experiments in Information Engineering Ⅱ	4
	Graduation Research	8
Elective	Applied Physics Ⅱ	2
	Mathematics for Information Science	2
	Numerical Analysis	2
	Electromagnetics	2
	Semiconductor Electronics	2
	System Engineering	2
	System Programming	2
	System Software	2
	Infromation System	2
	Artificial Intelligence Ⅰ	2
	Artificial Intelligence Ⅱ	2
	Digital Image Processing	2
	Database Management System	2
	Computer Networks Ⅰ	2
	Computer Networks Ⅱ	2
	Information Security	2
	Internship	1
	Special Lectures Ⅰ	1
	Special Lectures Ⅱ	1
	Pre-research Activity Ⅰ	1
	Pre-research Activity Ⅱ	1
	Pre-research Activity Ⅲ	1
	Research Fundamentals Ⅰ	1
	Research Fundamentals Ⅱ	1
	Research Fundamentals Ⅲ	1
	AI Ⅰ	1
	AI Ⅱ	1
	AI Ⅲ	1
	AI Ⅳ	1


Digital Circuit Experiment


Network System Integration


3D Content Creation for Virtual Reality


Programming Contest

◇Main Experiment Facilities

Room	Main Equipment
Control Circuit Lab.	3D Input/Output Device(3D Scanner, 3D Milling machine) 3D CAD/CAM software
Engineering Science Lab.	Educational design and prototyping platform, LabVIEW, Electronic Circuit Simulator
Network Lab.	Experiment equipments for network skill acquisition(Router,L2,L3 switch)
Knowledge Information Processing Lab.	The server for analyzing Big Data
ICT Lac.	203.2cm diagonal screen size Integrated Touch Display
Reference Room	AI learning server
Image information processing Lab.	Embedded technology training robot teaching materials
Joint Use Lab.	3D content creation system

Faculty of Advanced Engineering(Bachelor's Degree Program)

The Faculty of Advanced Engineering at Kagawa KOSEN aims to develop analytical, problem-solving skills as well as research ability of students so that they become practical and creative engineers who will play important roles in various industries, and contribute to the regional economy and society through collaborative projects.
To accomplish this goal, the Faculty of Advanced Engineering is comprised of the Courses in Industrial and Systems Engineering Program at the Takamatsu Campus, and the Course in Electronics, Information and Communication Engineering Program at the Takuma Campus.

■Educational Objectives

The educational objectives of the Faculty of Advanced Engineering at Kagawa KOSEN are:

◇ Students will acquire highly specialist knowledge in their engineering fields and develop analytical skills by attending advanced lectures and proceeding their thesis research.

◇ Students will acquire broad knowledge and problem-solving skills from practical experience in other related fields to play leading roles in interdisciplinary areas.

◇ Students will learn ethical issues and responsibilities as engineers through collaborative researches with local educational organizations and companies.

◇ Students will acquire global viewpoints and communication skills in Japanese and English, by participating in workshops and scientific conferences inside and outside of the college.


Advanced Course(Takamatsu Campus)


Advanced Course(Takuma Campus)

Advanced Course in Industrial and Systems Engineering (Takamatsu Campus)

This course has four sub-courses to educate students to be practical engineers with problem-solving skills and the creativity to develop technologies.

■Mechanical Engineering Course

This course is for future mechanical engineers with problem-solving skills and original creativity.

■Electrical and Computer Engineering Course

This course is for future electrical engineers, electronic engineers, computer engineers and researchers.

■Electro-Mechanical Systems Engineering Course

This course is for future mechatronics engineers with well-founded skills who contribute to the human happiness and welfare.

■Civil Engineering Course

This course is for future civil engineers with knowledge of design, planning, disaster prevention and environmental preservation techniques.

◇Curriculum

Classification		Subject	Credits
Liberal Arts	Compulsory	Management Theory	2
		TOEIC Preparation	2
	Elective	Jurisprudence	2
		Reading of Literary works	2
Engineering Basic	Compulsory	Engineer Ethics	2
		Topics in Mathematics Ⅰ	2
	Elective	Modern Physics	2
		Intellectual Property Rights	2
		English for Technical Purpose	2
		Topics in Mathematics Ⅱ	2
		Physical Chemistry	2
		Analytical Chemistry	2
		Applied Physics	2
		Overseas English Program	1
Core Eng. Subjects	Compulsory	Experiments and Practicals Ⅰ	2
		Experiments and Practicals Ⅱ	2
		Thesis Research Ⅰ	6
		Thesis Research Ⅱ	10
		Seminar Ⅰ	2
		Seminar Ⅱ	2
	Elective	Special Lectures	2
		Internship Ⅰ	1
		Internship Ⅱ	2
		Internship Ⅲ	4
		Internship Ⅳ	6

Classification		Subject	Credits
Eng. Subjects of ME Course.	Elective	Internal Combustion Engines	2
		Computational Mechanics	2
		Elasticity and Plasticity	2
		Advanced Strength and Fracture of Materials	2
		Matrix Vibration Analysis	2
		Reliability Engineering	2
Eng. Subjects of EC Course	Elective	Electromagnetic Compatibility	2
		Modern Control Theory	2
		Project Management Theory	2
		Solid State Electronics	2
		Integrated Circuits	2
		Semiconductor Physics	2
		Power Electronics	2
		Information and Communication Engineering	2
		Microwave Engineering	2
		Digital Signal Processing	2
		Knowledge Computing	2
		Image Processing Engineering	2
Eng. Subjects of MS Course.	Elective	Advanced Heat Transfer	2
		Advanced Dynamics	2
		Optimization Theory	2
		Advanced Computer Processing	2
		Advanced Joining Technologies	2
		Advanced Energy Engineering	2
		Advanced Control Engineering Ⅰ	2
		Advanced Control Engineering Ⅱ	2
		Mechatronics	2
Eng. Subjects of CV Course	Elective	Seismic Design	2
		Maintenance Engineering	2
		Structural Analysis in Civil Engineering	2
		Transport Planning	2
		Urban Design	2
		Prevention of Natural Disasters Ⅰ	2
		Environmental Disaster Prevention Engineering Ⅱ	2
		Advanced Fluid Dynamics	2
		Civil Mathematical Planning	2
		Infrastructure Planning	2
		Information Technology and Systems	2
		Introduction to Civil Engineering	2
		Environmental Ethics and Management	2

ME Course…Mechanical Engineering Course
EC Course…Electrical and Computer Engineering Course
MS Course…Electro-Mechanical Systems Engineering Course
CV Course…Civil Engineering Course


Analysis using Motion Capture


Internal Combustion Engine


Water Quality Analysis

Advanced Course in Electronics, Information and Communication Engineering (Takuma Campus)

We provide a consistent curriculum from the associate degree course into the bachelor's degree course. The curriculum subjects consist of " liberal Arts ", " Engineering Basics " and " Field Specialized ".

Courses to enhance specialization in the fields of electronics, information, and communications are aligned to make it possible for studies to continue from the corresponding associate degree course. The course covers all fields of electrical and electronics engineering such as electrical and electronic information communication for the purpose of broadening students expertise.

Thesis research, special research, experiments and exercises are paramount for the program. In thesis research, the chance to research with supervisors collaborating with faculty at university is established. Joint research with local industry to contribute to regional industrial development are also prepared for students. In special research and experiments, students form groups to collaborate with students from the different fields and utilize the specialized knowledge and skills acquired by each individual to develop systems.

We cultivate practical and creative engineers who have a wide range of perspectives that can acquire complex knowledge and advanced skills in specialized fields with multidisciplinary capacity. Furthermore, our students also acquire advanced communication skills, self-sufficiency, high trouble shooting and problem solving capabilities throughout these studies.

◇Curriculum

Classification		Subject	Credits
Liberal Arts	Compulsory	Communicative English Ⅰ	2
		Communicative English Ⅱ	2
	Elective	Advanced Japanese Literature	2
Engineering Basic	Compulsory	Engineer Ethics	2
	Elective	Advanced Physical Science	2
		Topics Applied Mathematics	2
		Intellectual Property	2
		English for Engineers	2
		Engineering Mathematics	2

Classification		Subject	Credits
Common Special Subjects	Compulsory	Thesis Research Ⅰ	6
		Thesis Research Ⅱ	4
		Experiments and Exercise Ⅰ	4
		Experiments and Exercise Ⅱ	6
	Elective	Quantum Mechanics	2
		Introduction to Information Technology	2
		Digital Signal Processing	2
		Applied Electromagnetics	2
		Graph Theory	2
		Information Networks	2
		Specialized Electronic Circuits	2
		Industrial Instrument Engineering	2
		System Control Engineering	2
		Algorithms and Data Structures	2
		Multi-Media Engineering	2
		Image Processing	2
		Special Lectures	2
		Communication Engineering	2
		Radio and Light Wave Engineering	2
		Advanced Communication Engineering	2
		Applied Electronic Materials Science and Engineering	2
		Machine Learning	2
		Digital Control Engineering	2
		Object Oriented Programming	2
		Applied Network Programming	2
		Database Design	2
		Internship Ⅰ	1
		Internship Ⅱ	2
		Internship Ⅲ	4
		Internship Ⅳ	6

Stockholm International Youth Science Seminar, SIYSS
(Image provided courtesy of the Japan Prize Foundation)

The world congress of Imagin Cup 2015 at Microsoft Corporate headquarters.
(Image provided courtesy of Microsoft Corp.)

An international conference MJIC2020

International Affairs

◇Academic Exchange Agreement with Overseas Institutions

University / Faculty	Country / Region	Since
Dongyang Mirae University (DMU)	South Korea	Aug. 2005
Danang University of Technology (DUT)	Vietnam	Jun. 2009
Cheng Shiu University (CSU)	Taiwan (R.O.C.)	Dec. 2009
College of Engineering, Seoul National University (SNU)	South Korea	Jun. 2010
Universiti Teknologi MARA (UiTM)	Malaysia	Aug. 2010
Christchurch Polytechnic Institute of Technology (CPIT)	New Zealand	Jun. 2012
University of Caen Basse-Normandie	France	Jul. 2013
Rajamangala University of Technology Thanyaburi (RMUTT)	Thailand	Aug. 2014
Thai-Nichi Institute of Technology (TNI)	Thailand	Mar. 2015
Universite Francois-Rabelais Tours (UFRT)	France	Dec. 2015
Universiti Sains Malaysia (USM)	Malaysia	Jul. 2018
Dalian Neusoft University of Information (DNUI)	China	Dec. 2018
National Cheng Kung University (NCKU)	Taiwan (R.O.C.)	Mar. 2021
Southern University of Science and Technology (S.T.U.T)	Taiwan (R.O.C.)	Mar. 2024

◇Organization of International Symposiums/Seminar

◇ "International Symposium on Geo-Environment Engineering (GEE) ," May 2015, May 2016 and May 2018
◇ "International Civil and Infrastructure Engineering Conference (InCIEC)," Shah Alam, Malaysia, Sep. 2015.
◇ "Eco-Energy and Materials Sciences and Engineering Symposium", Dec. 2016, and April 2018
◇ "International Conference on Nanoscience & Nanotechnology" Feb. 2014～Mar. 2024
◇ "International Conference on Creativity, Inovation, and Invention on Digital Technology (CIIDT)", Dec. 2018 and Jan. 2025
◇ "NIT-NUU Bilateral Academic Conference.", Sep. 2019, Sep. 2021 and July 2024
◇ "The 1st International Workshop on Smart Robotics and Applications", Mar. 2024

◇International Exchange and Academic Activities by Faculties and Students

◇ International internship at local offices of Japanese firms; in Thailand (2015, 2018, 2019 and 2024), Malaysia (2017 and 2024), Taiwan (2024), France (2024), Hong Kong (2016), Vietnam (2015).
◇ "Engineering Class in English" by Visiting Professors from overseas; Takamatsu Campus (Dec. 2017) and Takuma Campus (Jan. 2018) .
◇ Global Engineer Training Program: to UiTM (Mar. 2015), to UiTM (Mar. 2016), to UFRT (Sep. to Dec. 2016), to UiTM (Mar. 2017), to RMUTT (Mar. 2017) ,to UiTM (Mar. 2018) ,to UFRT (Oct. to Dec. 2018), and to RMUTT (Sep. 2019), and to UiTM (Mar.2020), to UFRT (Mar.2020), to UFRT (Oct. to Dec. 2023) and to UFRT (Oct. to Dec. 2024).
◇ Global Engineer Training Program: from RMUTT (Apr. 2015), from UFRT (Apr. to Jun. 2016), from UiTM (Mar. 2017), from UFRT (Apr. to Jun 2018), from RMUTT (May. to Jun./Jul. 2018), from UFRT (Apr. to Jun. 2019), from RMUTT (May. to Jul. / May. to Aug. / Jun. to Aug. 2019, Nov. 2019 to Jan. 2020) and from UFRT (Apr. to Jun. 2024).

◇International Students at NITKC

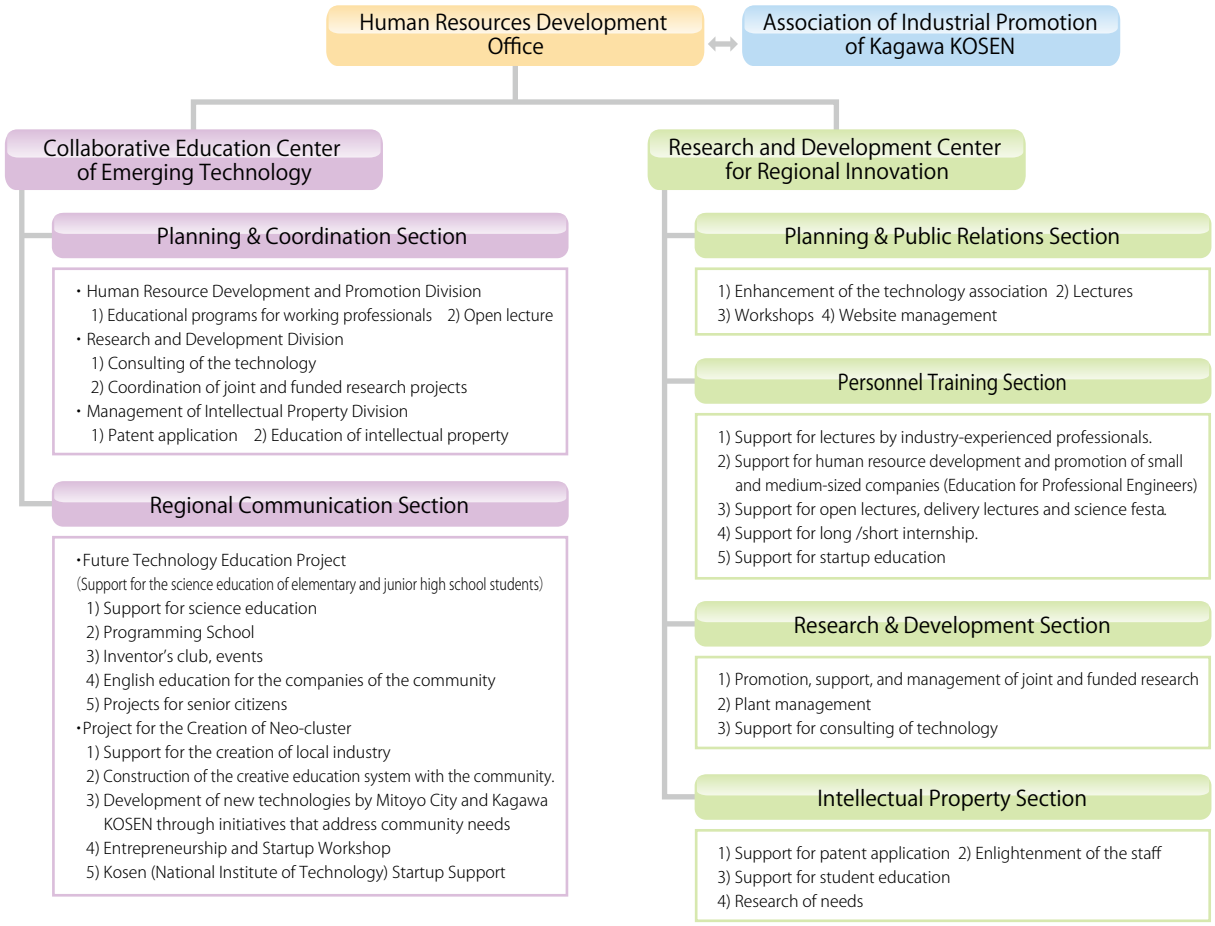
■Number of International Students Entering Mid-course/Advanced course of NITKC in Each School Year

Country / School Year	Bangladesh	Cambodia	China	India	Indonesia	Korea	Laos	Malaysia	Mongolia	Philippines	Sri Lanka	Thailand	Viet Nam	Madagascar	Tunisia	others	Total
2025				2				1							1		4
2024					1				1			2					4
2023		1						1									2
2022					1			1									2
2021						(1)	1	1									3
2020									1								1
2019								2	1			(1)		1			5
2018									3								3
2017								2	2			1					5
2016								4	1			1					6
1985~2015	7	4	5	1	13	2(2)	9	72	7	9	7	10	11			6	165
Total	7	5	5	3	15	5	10	84	16	9	7	15	11	1	1	6	200

* Other countries include one each from Brazil, Colombia, Kenya and Pakistan, and two from Uganda.
** ( ): Advanced Course

Human Resources Development Office

◇Organization Chart of Human Resources Development Office



◇Activities of Academic-industrial Alliance

■Association of Industrial Promotion of Kagawa KOSEN

Established on 28 August, 2009.
Purpose:

We utilize our knowledge, materials and human resources. We aim to develop local industries and enhance the partnership with them, through the many operations such as exchanging technologies and information. We would like to contribute to the promotion of the education and research in Kagawa KOSEN

Description of business:

Promotion of technology development by the academic-industrial alliance. Development of local industries. Technology lectures, classes, workshops, Publish the information report, Consulting on technologies, Exchange information, Support for education of company workers, Promotion support projects of cooperative research, Internship, Recruiting fairs, Collaborative education, Promotion of education and research of Kagawa KOSEN etc.

■Shikoku KOSEN Center for Innovative Technologies

Purpose:

Anan, Kagawa, Niihama, Yuge and Kouchi KOSENs utilize the potentials of the colleges and aspects of the Shikoku-area, and spread out the activities of the academic-industrial alliance to contribute to the stimulation and promotion of the local area.

Business outline:

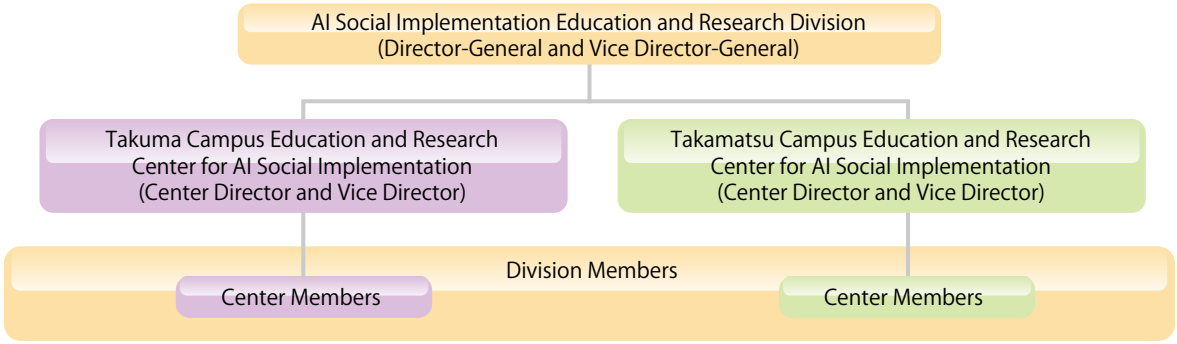
1 . Department of the creation of innovation
Matching between the needs and the technology seeds of KOSENs in Shikoku-area. Consulting the technologies. Activities of academic-industrial alliance such as joint research.

2 . Department of the Intellectual Property
Management and education of Intellectual Property in coalition for KOSENs in Shikoku-area.

3 . Department of coalition for KOSENs in Shikoku-area.
Other activities to achieve the purpose of the center.

AI Social Implementation Education and Research Division

◇AI Social Implementation Education and Research Division Organization Chart



Since the conclusion of an agreement of cooperation between the Matsuo Laboratory at the University of Tokyo (Mitoyo, Kagawa) and the National Institute of Technology Kagawa College (NITKC) on August 30, 2018, NITKC has been actively promoting development and social implementation of AI through Deep Learning Methods.
April 1, 2020, the NITKC AI Social Implementation Education Research Division was established to foster creative ideas amongst all the Kagawa National Institute of Technology college students and researchers who conduct basic and applied research with AI; through the practice of social implementation, joint research with regional companies, and by human resource development, participants will have the power to implement their ideas in society.
The division will actively provide educational programs about AI and its underlying data science courses to all the students of the National Institute of Technology colleges by using the educational and research resources of the University of Tokyo' s Matsuo Laboratory and NITKC' s research achievements.

Conclusion of the Agreement of Cooperation between Mitoyo Matsuo Laboratory of the University of Tokyo and NITKC (August 2018, Mitoyo City Hall)

The NITKC AI Social Implementation Education and Research Division will promote education through the following activities:
(1) Research Development for AI student researchers.
(2) Community Education (social implementation) in cooperation with local areas.
(3) Accessible Lectures (visiting and remote) related to human resource development in AI technology
(4) Regional Cooperation with the Mitoyo AI Social Promotion Organization (MAiZM)*

The NITKC AI Social Implementation Education and Research Division will establish the "Takuma Campus Education and Research Center for AI Social Implementation" and the "Takamatsu Campus Education and Research Center for AI Social Implementation" to promote AI education and social implementation on each campus.

***The Mitoyo AI Social Promotion Organization (MAiZM) https://www.maizm.or.jp/**

On April 1, 2019, MAiZM was established in cooperation with Prof. Yutaka Matsuo from the University of Tokyo and with NITKC.
The organization will be actively promoting AI(DL) education for NIT students and AI(DL) applications.

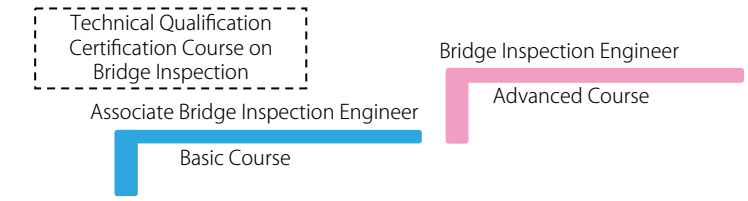
◇Members

AI Social Implementation Education and Research Division	Director-General	MURAKAMI, Yukikazu (Associate Professor, Department of Electrical and Computer Engineering)
	Vice Director-General	MISAKI, Yukinori (Professor, Department of Electronic Systems Engineering)
Takuma Campus Education and Research Center for AI Social Implementation	Center Director	MISAKI, Yukinori (Professor, Department of Electronic Systems Engineering)
	Center Vice Director	IWAMOTO, Naoya (Associate Professor, Department of Electronic Systems Engineering)
Takamatsu Campus Education and Research Center for AI Social Implementation	Center Director	MURAKAMI, Yukikazu (Associate Professor, Department of Electrical and Computer Engineering)
	Center Vice Director	KIMURA, Yuto (SeniorLecturer, Department of Mechanical Engineering)

Infrastructure Maintenance Educational Center

Infrastructure Maintenance Educational Center at Kagawa Kosen (iMec Kagawa) was established on April 1, 2020. It aims to carry out recurrent education and to foster expertise in the maintenance and management of civil infrastructure using the educational and research resources at Kagawa Kosen.

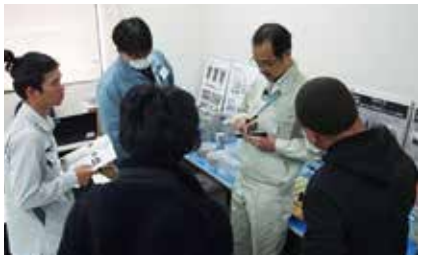
The deterioration of civil infrastructure such as roads and bridges has become a social issue, and it is necessary to develop engineers for maintenance. iMec Kagawa offers practical education, including e-learning and lecture-based courses on maintenance. It also provides skill training on damage inspections and non-destructive testing (NDT), as well as hands-on learning using materials from actual deteriorated bridges. These programs are offered to students, local government officials, and private-sector engineers. Those who complete the prescribed course will be qualified for certifications such as Bridge Inspection Engineer certification registered with the Ministry of Land, Infrastructure, Transport and Tourism (MLIT).
The development of KOSEN-type academic–industrial cooperation for human resource development in infrastructure maintenance has been adopted as part of a project supported by MEXT (Ministry of Education, Culture, Sports, Science and Technology) to build a sustainable industry–academia human resource development system, running from FY2019 to FY2023.
Kagawa Kosen builds the basis for recurrent education in the community in collaboration with Maizuru Kosen, Fukushima Kosen, Nagaoka Kosen, and Fukui Kosen. These efforts to foster professional engineers nationwide have been recognized, and on January 16, 2025, the "REIM Academic-Industrial Cooperation Consortium," which includes Kagawa Kosen along with four other technical colleges and industry-government-academia regional partnerships, was awarded the MLIT Prize at the 8th Infrastructure Maintenance Awards.




Overview of the Bridge Maintenance Training Field

Facilities

Structural members collected from actual deteriorated bridges have been placed in the Bridge Maintenance Training Field for educational purposes.


Explaining Bridge Component Teaching Models


Inspecting a Steel Bridge


Inspecting a Concrete Bridge


Practicing Non-Destructive Testing


On-Site Bridge Inspection Training


Group Work

◇Staff

Director	HAYASHI, Kazuhiko (Associate Professor, Civil Engineering Department)
Vice director	HASEGAWA, Yuki (Associate Professor, Civil Engineering Department)
Member	MATSUMOTO, Masayuki (Assistant Professor, Civil Engineering Department)

Research

◇Grants-in-Aid for Scientific Research

Identification of missing data mechanisms peculiar to software development data
Development of a Bunraku Robot which can be Operated by One Person
Mathematical Deepening of Audio Source Separation Based on Independence and Amplitude/Phase Modeling and Development of Multimodal Hearing-Aid system
Fundamental study of continuous blood pressure measurement using a wearable sensor attached to nail surface
Research to realize a practical satellite development curriculum using a general-purpose satellite model starting from high school students
Investigation of optimum arrangement of small-vertical-axis-wind-turbine clusters with interaction between the pairs and trios of turbines
Formation of double roughness structures on surface of polymer blend film using atmospheric pressure low temperature plasma
Application to Smart Machining Systems using Compression of Skill Data for Inheritance of Excellent Technician's Skills
Development of a portable fishway system suitable for the upstream migration of salmon and trout
Semiconductor Device Foundry Achieved at a Nano-tech Platform Established on an Average Science Lab
Interview dialogue system for augmenting awareness opportunity
Basic study on recycling method of ITO transparent conductive substrate using pulsed arc discharge
Perception and recognition of tactile texture through integrated silicon sensory hairs accessible to micro and constricted areas
Quantitative Evaluation of Radiation trapping by a New Method Using Forbidden Line/Resonance Line Intensity Ratio and X-ray Optical Elements
Development of resource recycling artificial geomaterial and application to geohazards prevention measures
Development of assessment methods of both children's independent mobility and safety
Thermocell using redox-active ionic liquid based electrolyte
Development of criteria and decision-making measures for the continuation of local railways
Study on optimal energizing conditions of 500 kHz current for apical periodontitis treatment
A free boundary problem of the Navier-Stokes equations in unbounded domains
Higher spin duality and superstring theory with Wilson lines
Development of a Method to Ensure Segregation Resistance of Concrete Using Unutilized Aggregates with Various Particle Shapes and Sizes
Demonstration of a Simple and Low-cost Recirculating Aquaculture Systems (RAS) for Developing Countries
Evaluation of building damage at inland area caused by low water depth tsunami overtopping due to different seawall configurations
Development of transparent puzzle teaching devices that make EEG external lectures adjustable for individuals
Exploration of New Pharmaceutical Lead Compounds Based on Catalytic Palladium Enolate Umpolung
Elucidation of deterioration mechanisms of repair materials and development of technologies to prevent re-deterioration
Development and Improvement of a Radiactive Decay Learning Tool Using Minecraft
Gauge/gravity correspondence and quantum gravity for expanding universe
12 another research study, Number of Research Studies 41 , Total Funds 40,221,000Yen

◇Commissioned Research

Acquisition of test data and technical evaluation for CubeSat for innovative satellite technology demonstration experiments
Installation test of a portable fishway for the upstream migration of Oncorhynchus keta and Oncorhynchus gorbuscha
1 another research study, Number of Research Studies 3, Total Funds 5,823,400Yen

◇Cooperative Research with Private Sector

Feasibility of industrial methane production in the subsurface environment via microbial activities
Development of High-Performance Lead-Acid Batteries
Extraction Technology of Metal from Abandoned Coated Wires
On Share Cyber Security Information
Development of RFID antenna at 920MHz band
Analysis and decomposition of audio mixtures utilizing spatial information
AI Image Recognition System for Assisting Manual Tasks
Development of active phased array antenna using printing technology on stratospheric balloon surface
Study on durability life prediction method of cable conductor/shield wire for moving parts.
Research on anomaly detection using image classification algorithms for thermal power plants
Spatial information analysis and mixture signal separation utilizing spatial information
Research on next-generation fundamental technologies for multichannel audio signal processing
A Study on the Relationship Between Children's Independent Mobility and Land Use in the Suburbs of Regional Cities
Improvement of production line process under "mechasolutions"
Relation between evaluation of permeability and high precision about in-situ investigation of the pond's dike
A Study on the Influence of Regional Characteristics on Children's Independent Mobility
Development of a Fecal Detection Method for Automatic Cat Toilet Cleaning
Digital Transformation in Infrastructure Management and Maintenance
15 another research studies, Number of Research Studies 33, Total Funds 9,577,610Yen

◇Other Competitive Funds and Grants

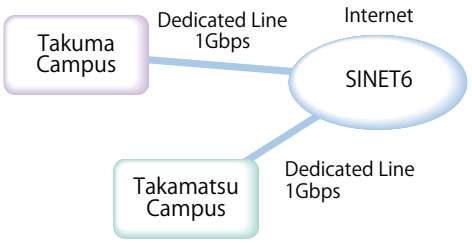
Wide-band AC Servo System Based on Based on Discrete-state Feedback Considering Local Linearization and Successive Discretization
Development of technology to realize a highly profitable cultivation system in horticulture facilities
Influence of various parameters such as electrode configuration on hydrogen production from water using pulsed discharge plasma
Development of high-durability artificial geomaterial utilized waste rubber fiber
Wide-band Force Control of Robot Arm Considering Sampling Clock Synchronization of Servo Motor
2 another research studies, Number of Research Studies 7, Total Funds 7,559,199Yen

Facilities

◇Networking and Computing Service Center

■Network Infrastructure

Each campus has a dedicated connection with 1Gbps to the Science Information NETwork (SINET).



Network Between Two Campuses and SINET6

■Computing Service

○Takamatsu Campus

Automatically-recoverable computers are installed in the facilities and are used for education on computer literacy and academic research. 47 client computers for the first training room; 50 client computers for the second training room; 18 client computers for the third training room; and 54 client computers for the multimedia room.

Takamatsu Campus Second Training Room

○Takuma Campus

Automatically-recoverable computers are installed in Advanced Information Lab, and are used for education on computer literacy and academic research. All of the students can connect their BYOD PC to the campus network with wired or wireless LAN in Second Seminar Room, Cyber Lab, and Multimedia Learning Lab.

Takuma Campus Advanced Information Lab

◇Human Resources Development Office

This office consists of the Collaborative Education Center of Emerging Technology and the Cooperative Research & Development Center. Each center has many laboratories and a lot of equipment. These are used for students' experiment programs, the experiments for the graduation thesis of the associate degree, the cooperative research, and the commissioned research. The equipment is as follows: X-ray diffraction system for thin-film crystalline analysis; X-ray fluorescence spectrometer; Absorption spectrophotometer; Tabletop microscope; Ellipsometer; Scanning probe microscope; Scanning electron microscope; Finite element analysis system; Thermography camera; RF magnetron sputtering system; Fume hood; Digital Microscope; Atomic force microscope; Surface profiler.

Scanning Electron Microscope

Digital_Microscope

Students

■Number of Students

◇Department

Classification		Admission Capacity	Enrollment 1st	2nd	3rd	4th	5th	Total
Departments	Department of Mechanical Engineering	40	42(2)	43(3)	37(1)[1]	42(2)[1]	26(0)	190(8)[2]
	Department of Electrical and Computer Engineering	40	42(2)	43(12)	42(8)	41(4)	37(3)	205(29)
	Department of Electro-Mechanical Systems Engineering	40	43(6)	42(4)	48(4)	34(1)[1]	36(1)	203(16)[1]
	Department of Civil Engineering	40	44(8)	41(9)	42(13)	34(7)	35(9)[1]	196(46)[1]
	Department of Communication Network Engineering	40	42(11)	39(8)	47(9)[2]	39(10)	35(6)[1]	202(44)[3]
	Department of Electronic Systems Engineering	40	42(7)	43(8)	45(6)	36(0)[1]	45(5)	211(26)[1]
	Department of Information Engineering	40	42(7)	42(8)	41(7)[1]	46(5)[1]	40(12)	211(39)[2]
	Total	280	297(43)	293(52)	302(48)[4]	272(29)[4]	254(36)[2]	1,418(208)[10]

◇Faculty of Advanced Engineering

Classification		Admission Capacity	Enrollment 1st	2nd	Total
Course	Advanced Course in Industrial and Systems Engineering	24	28(2)	27(2)	55(4)
	Advanced Course in Electronics,Information and Communication Engineering	18	26(3)	15(3)	41(6)
	Total	42	54(5)	42(5)	96(10)

( ) Female,
[ ] Overseas Students
As of May. 1, 2025

■Clubs and Associations of People Sharing Common Interests

◇Sports Clubs

Baseball Club
Track & Field Club
Table Tennis Club
Judo Club
Kendo Club
Yacht Club
Volleyball Club
Basketball Club
Swimming Club
Tennis Club
Soccer Club
Softball Tennis Club
Badminton Club
Handball Club
Shorinji-Kenpo Club

◇Societies

Calligraphy Society
Cheer Team
Literature Society
Metaverse Society
Painting Society
Photograph Society
Dance Society

◇Cultural Clubs

Photography Club
Brass Band Club
English Club
Light Music Club
Computer Club
Painting Club
Mechanical System Club
Science Club
Future Car Club
Chorus Club
Sado & Kado Club
Radiotelegraphy Club
Shogi Club
Original Comics Club
Go & Shogi Club
Space Development Research Club

Dormitories

■Seiun-ryo（Takamatsu Campus）

Takamatsu Campus has accommodations for students called Seiun-ryo, which consists of four buildings: South Dormitory, North Dormitory, West Dormitory and International Dormitory. Male boarders stay at North and South Dormitory and female boarders use West Dormitory. Overseas students stay at International Dormitory with Japanese students.

- South Dormitory 4-story building 57 private rooms(9㎡), 2 private rooms(13.5㎡), 1 shared room with 2 beds etc(24㎡), 1 shared room with 2 beds etc(13.5㎡)
- North Dormitory 3-story building 29 private rooms(11㎡), 1 private rooms(15㎡), 24 shared room with 2 beds etc(15㎡)
- West Dormitory 3-story building 23 private rooms(10㎡), 8 shared room with 2 beds etc(15㎡)
- International Dormitory 3-story building 70 private rooms(7㎡)
- Common rooms a study room, a seminar room, lounges with a kitchenette, laundry room, bath room and a canteen, shower and kitchen for all individual Units(International Dormitory).

◇Number of Dormitory Students

School Year	1st	2nd	3rd	4th	5th	Faculty of Advanced Engineering	research students	total
No. of Dorm studs	51(5)	43(5)	36(5)〈1〉	27(3)〈1〉	16(3)〈1〉	1(0)	1〈1〉	175(21)〈4〉

( ) : Number of Female Students within Total, < > Number of Overseas Students within Total　　As of May 1, 2025


West Dormitory & North Dormitory


South Dormitory

■Shippo Dormitory・Shiun International Dormitory（Takuma Campus）

Takuma Campus has two dormitory buildings: Shippo Dormitory and Shiun International Dormitory. Overseas students and female students reside in Shiun International Dormitory, while male students reside in Shippo Dormitory.

- Shippo Dormitory Building 2: 4-story building with 26 private rooms (13.5㎡) and 9 shared rooms (27㎡) with 2 beds each.
  Building 3: 5-story building with 46 private rooms (9㎡) and 69 shared rooms (18㎡) with 2 beds each.
- Shiun International Dormitory Building 4: 5-story building with 91 private rooms (9㎡).
- Facilities include: Common rooms, computer rooms, a lounge, lounges with kitchenettes, a laundry room, bathrooms, and a canteen.

◇Number of Dormitory Students

School Year	1st	2nd	3rd	4th	5th	Faculty of Advanced Engineering	total
No. of Dorm studs	49(4)	39(5)	45(9)〈3〉	37(5)〈2〉	40(7)〈1〉	7(1)	217(31)〈6〉

( ) : Number of Female Students within Total, < > Number of Overseas Students within Total　　As of May 1, 2025


Shippo Dormitory & Shiun International Dormitory


Canteen

After Graduation

■Employment or Academic Situation

As of April. 1, 2025

◇Takamatsu Campus

	Classification	Number of Graduates	Number of the Students who Further their Education	Number of Employed	Number of the Other	Job Offered Companies
Departments	Department of Mechanical Engineering	41	11	27	3	883
	Department of Electrical and Computer Engineering	36	20	15	1	
	Department of Electro-Mechanical Systems Engineering	38	14	23	1	
	Department of Civil Engineering	43	12	31	0	
	Total	158	57	96	5	
Course	Advanced Course in Industrial and Systems Engineering	30	10	20	0	

◇Takuma Campus

	Classification	Number of Graduates	Number of the Students who Further their Education	Number of Employed	Number of the Other	Job Offered Companies
Departments	Department of Communication Network Engineering	38	8	30	0	645
	Department of Electronic Systems Engineering	34	8	25	1	
	Department of Information Engineering	37	16	21	0	
	Total	109	32	76	1	
Course	Advanced Course in Electronics, Information and Communication Engineering	15	1	14	0	

Campus Map

Takamatsu Campus

1 Administration and Department of General Education
2 Department of General Education
3 Department of Mechanical Engineering
4 Machine Shop
5 Department of Electrical and Computer Engineering
6 Department of Electro-Mechanical Systems Engineering
7 Department of Civil Engineering and Lecture Rooms
8 Advanced Course
9 Library
10 Networking and Computing Service Center
11 Research and Development Center for Regional Innovation
12 Gymnasium1
13 Gymnasium2
14 Budo-jyo(Gymnasium for Martial Arts)
15 Training Room for Sports
16 Multi-purpose Space
17 Meeting Place for the Staff
18 Clubrooms①
19 Clubrooms②
20 Wind Tunnel Laboratory
21 Jikyo-kaikan(Welfare Facilities)
22 Wakei-kan(Site of a Training Camp)
23 Seiun-ryo(North Dormitory)
24 Seiun-ryo(South Dormitory)
25 Seiun-ryo(West Dormitory)
26 Seiun-ryo(International Dormitory)
27 Seiun-ryo(Dining Hall of Dormitory)
28 Swimming Pool
29 Athletic Field
30 Handball Court
31 Baseball Field
32 Tennis Courts
33 Tennis Court
34 Practical training facility for infrastructures

Takuma Campus

1 Administration Building
2 Faculty Building1
3 Faculty Building2
4 Faculty Building3
5 Multimedia Building
6 Advanced Course Building
7 Lecture Building1・Student・Affairs・Nurse Station
8 Lecture Building2
9 Library・Career・Support
10 Dormitory Administration
11 Shippo-ryo②(Dormitory)
12 Shippo-ryo③(Dormitory)
13 Shiun-ryo (Shiun International Dormitory)
14 East Dormitory
15 Boiler Room of Dormitory
16 Warehouse for Dormitory
17 Bathhouse for Dormitory
18 Gymnasium1
19 Gymnasium2
20 Martial Arts Gymnasium
21 Reserve Student Building
22 Warehouse for Physical Education
23 Building for the Swimming Pool
24 Student Commons Building
25 Reserve Faculty Building
26 Museum of Technology
27 Guard's Room
28 Garage
29 Housing for the Staff
30 Swimming Pool
31 Baseball・Soccer Field
32 Athletic Field
33 Tennis Courts

Accounting

◇Revenue and Expenditure (2024)

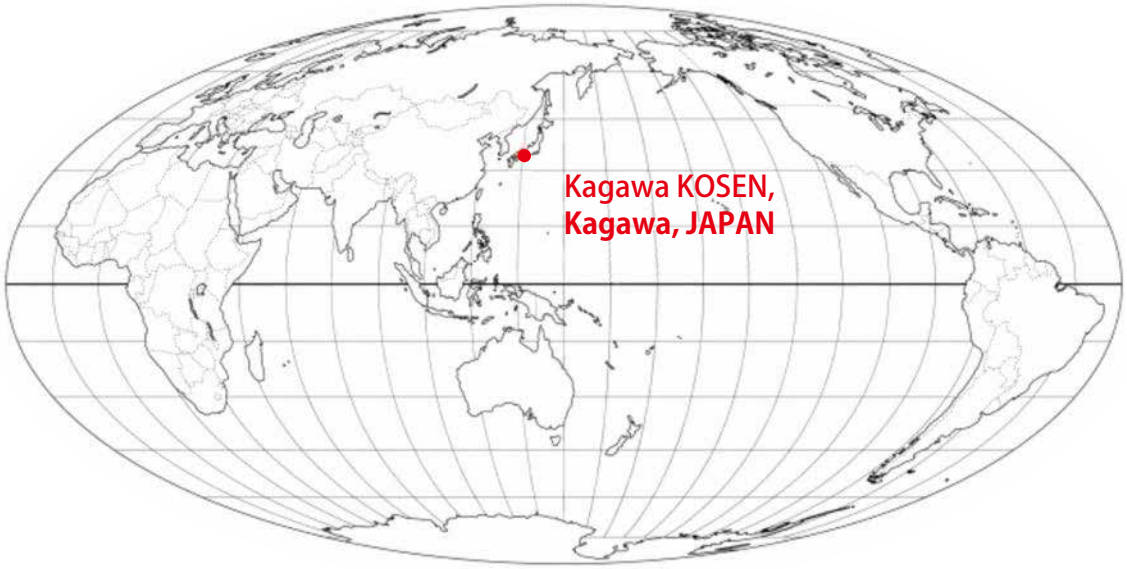
Revenue (a monetary unit：1,000yen)

Grant for working Expenditure	65,451
Facilities Improvement Expenses	365,904
Self-Revenue	
Tuition and Entrance Examination Fee	375,484
Miscellaneous Revenue	6,932
Industry-University Cooperation Research Revenue and Donation	50,957
Other Subsidy	42,855
Total	907,583

Expenditure (a monetary unit：1,000yen)

Educatioal Research Expenses	401,247
General Administrative Expenses	49,477
Facilities Improvement Expenses	365,904
Industry-University Cooperation Research and Donation Project Expenses	36,829
Other Subsidy	42,854
Total	896,311

Access from International Airports to Kagawa KOSEN



1 Narita International Airport(Tokyo) ⇒ (Narita Express) ⇒ JR Tokyo Station ⇒ (Tokaido Shinkansen) ⇒ JR Okayama Station ⇒ (Marine Liner) ⇒ JR Takamatsu Station

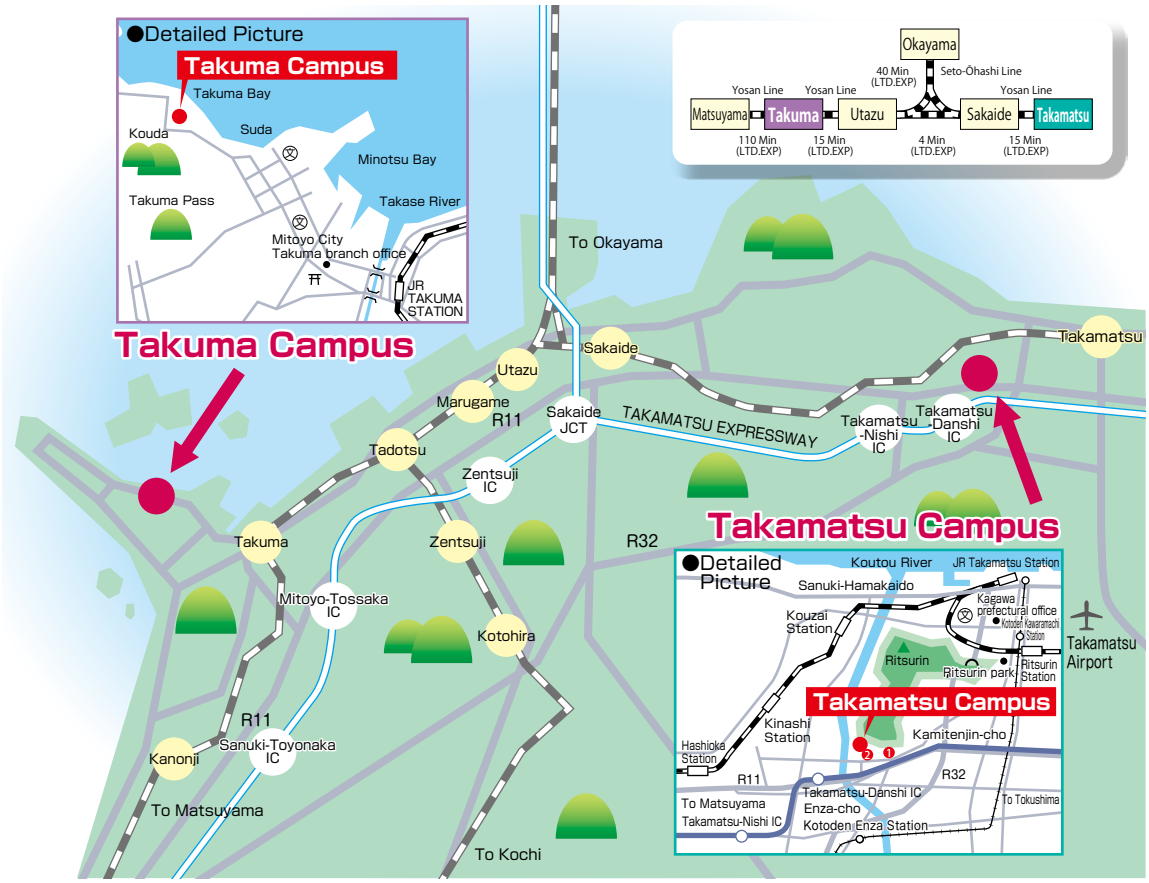
2 Tokyo International Airport(Tokyo) ⇒ (All Nippon Airways , Japan Airlines) ⇒ Takamatsu Airport ⇒ (Limousine Bus) ⇒ JR Takamatsu Station

3 Kansai International Airport(Osaka) ⇒ (Limousine Bus) ⇒ JR Takamatsu Station

4 Kansai International Airport(Osaka) ⇒ (Haruka Express) ⇒ JR Shin-Osaka Station ⇒ (Sanyo Shinkansen) ⇒ JR Okayama Station ⇒ (Marine Liner) ⇒ JR Takamatsu Station

Direct access from Takamatsu Airport or JR Takamatsu Station to NITKC is only 20 minutes by car.

Access Map



Takuma Campus

■From JR Takuma Station (Yosan Line)

20 minutes by car
Mitoyo City Community Bus for Nabuto on Takuma line /for Ohama on Takuma-Mino line
→ 1 minute walk from Kagawa KOSEN mae bus stop

■From Takamatsu Expressway IC

20 minutes by car from Mitoyo-Tossaka IC
30 minutes by car from Sanuki-Toyonaka IC

■From Takamatsu Airport

60 minutes by car

Address

551 Kohda, Takuma-cho, Mitoyo, Kagawa
769-1192 Japan
+81-875-83-8506

Takamatsu Campus

■From JR Takamatsu Station

30 minutes by car
Kotoden Bus(No.5 bus stop) for Ritsurin Garden, Mimaya-Prefecture Swimming Pool → 1 minutes walk from Kagawa Kosen mae bus stop❷
25 minutes by car
Kotoden Bus(No.5 bus stop) for Ritsurin Garden, Yusa-Iwasaki → 10 minutes walk from Koyama bus stop❶

■From Takamatsu Expressway IC

7 minutes by car from Takamatsu-Nishi IC
5 minutes by car from Takamatsu-Danshi IC

■From Takamatsu Airport

20 minutes by car

Address

355 Chokushi-cho, Takamatsu, Kagawa
761-8058 Japan
+81-87-869-3811

National Institute of Technology, Kagawa College
［Kagawa KOSEN］

355 Chokushi-cho, Takamatsu, Kagawa 761-8058 Japan
TEL +81-87-869-3811

Takamatsu Campus 355 Chokushi-cho, Takamatsu, Kagawa 761-8058 Japan
TEL +81-87-869-3811

Takuma Campus 551 Kohda, Takuma-cho, Mitoyo, Kagawa 769-1192 Japan
TEL +81-875-83-8506

URL https://www.kagawa-nct.ac.jp/