



2020

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.**

Message from the President

National Institute of Technology, Kagawa College was established by the incorporation and reorganization of Takamatsu National College of Technology and Takuma National College of Technology both having the long history, on October 1st, 2009. We have seven departments at the General Education Courses and two majors at the Advanced Course. We have improved and advanced the facilities and the equipment for both education and research. We are enhancing the cooperative relationship between Takamatsu Campus and Takuma Campus, and are providing favorable environments for the education. At the General Education Course, we arrange a curriculum composed of liberal education, professional education, and practical technology education for 5 years, to develop highly qualified engineers that have a rich sense of humanity and creativity, with a competency to deal with rapid progress of science and technology and with harmony among intelligence, technology and spirit. Students can attain as high competency as those at a university by the study for 5 years. Moreover, students can obtain the same degree of bachelor as those who graduate a university by the study for 2 years at the Advanced Course after graduation of the General Education Course.



At Takamatsu Campus, We have Industrial and Systems Engineering Division composed of Department of Mechanical Engineering, Department of Electrical and Computer Engineering, Department of Electro-Mechanical Systems Engineering and Department of Civil Engineering for the General Education Courses. We are cultivating engineers active in the region of creative manufacturing. At Takuma Campus, We have Electronics, Information and Communication Engineering Division composed of Department of Communication Network Engineering, Department of Electronic Systems Engineering, and Department of Information Engineering for the General Education Courses. We are cultivating engineers active in the region of advanced electronics, information and communication. We have Advance Course in Industrial and Systems Engineering at Takamatsu Campus and Advanced Course in Electronics, Information and Communication Engineering at Takuma Campus. At both Advanced Course, We are supplying educations full of intellectual stimulation and international sense, and are enhancing the Science Seminar.

We have Dormitories, Counseling Room and Career Support Center to support students' welfare, study, employment and career shaping through such as internship. We have International Exchange Promotion office to develop international exchange and collaboration in education and research, and Human Resource Development Office to develop local industries and enhance the partnership with them. We are making Academic Exchange Agreements with Overseas Universities, sending students abroad for international internship or student exchange, and promoting Cooperative Research with the Private Sector eagerly. We contribute to the wealth and advancement of our local community as a driving force of intellectual and technological progress.

Both of our campuses' long histories have seen over 20,500 students graduate and secure meaningful employment in the private sector, municipal and prefectural governmental offices, universities, and research institutes. These graduates of the colleges have displayed and exemplified an impressive work ethic and job performance, leading to high praise and evaluations given by employers. We constantly embark on new challenges and develop ourselves, inheriting the excellent traditions.

Yoshio Aso
President

Mission and Educational Goals

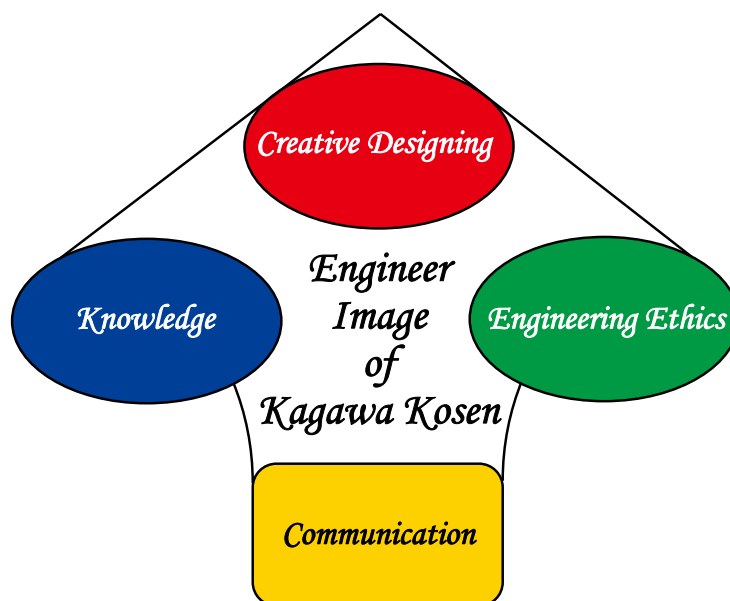
■ Mission of National Institute of Technology, Kagawa College : NITKC (Kagawa KOSEN)

- 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.



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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.

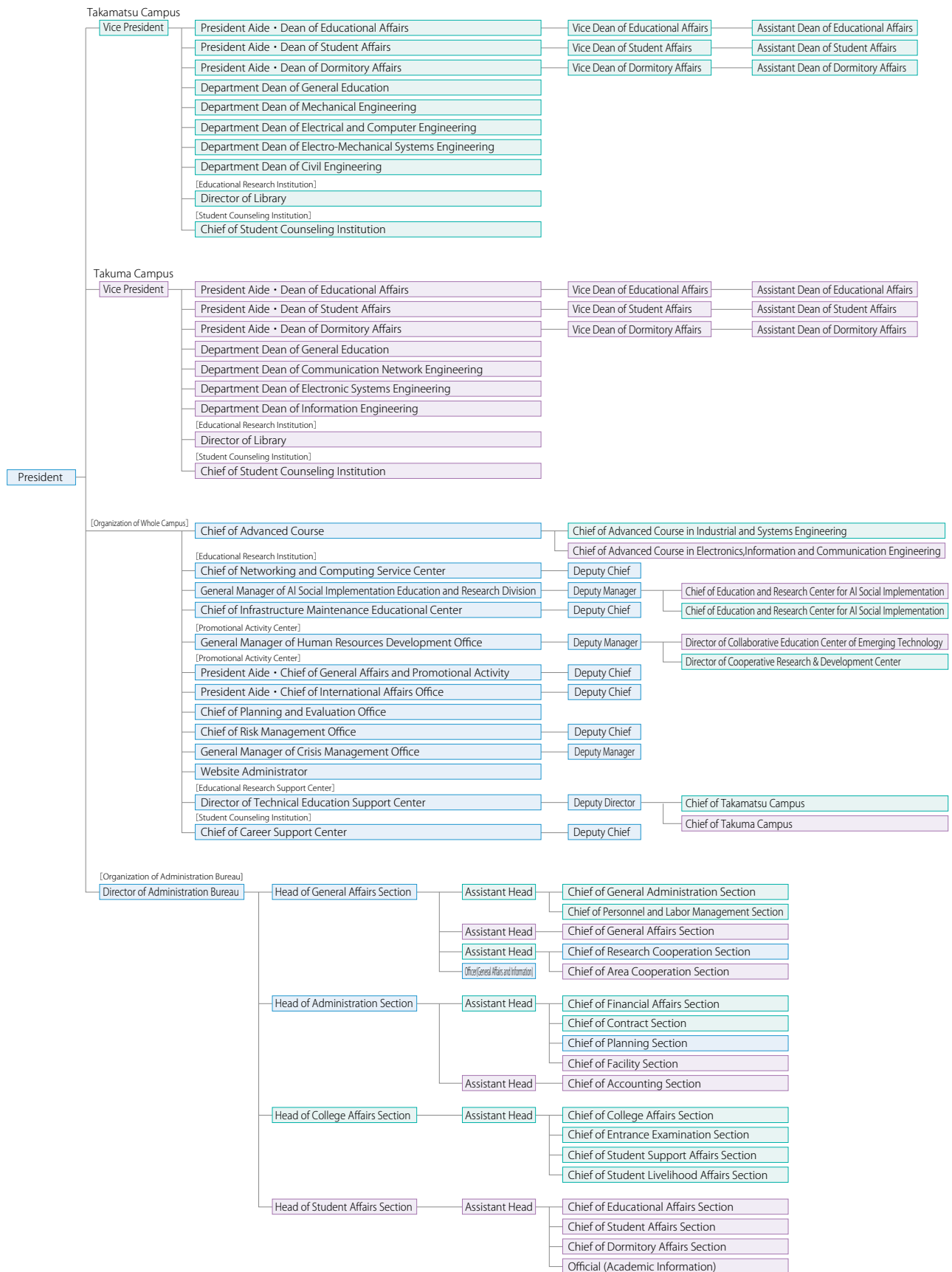
In January, 2013, a commemoration ceremony was held to celebrate the 50th anniversary of the Takamatsu Campus and the 70th anniversary of the Takuma Campus.

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

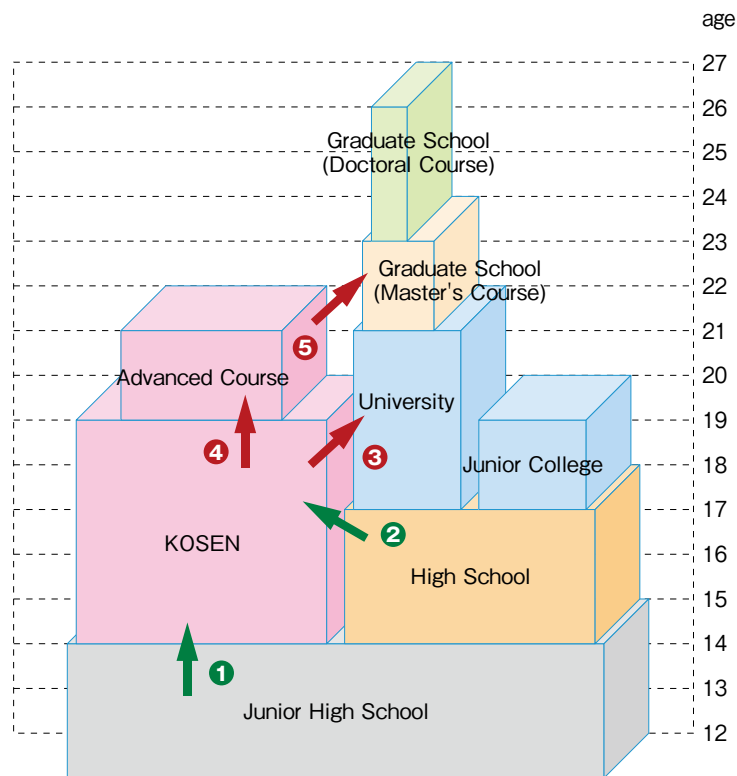
In April, 2018, Dr. Yoshio Aso was appointed as the third president of Kagawa KOSEN.

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.	SAKAMOTO, Tomotsugu	History of Ancient Chinese Thoughts
	TAKAHASHI, Hiroaki	Topology Mathematical Physics
	OKANO, Hiroshi	Inorganic Materials Chemistry Thin Film Engineering
	TAGUCHI, Jun	History of Educational Thought
	NAKASE, Mikio	Sports Methodology Coach Methodology
	SAWADA, Isao	Statistical Mechanics Condensed Matter Theory
	YOSHIZAWA, Kosei	Theory of Sports Training
Associate Prof.	KOSHOU, Kiyohiro	Pedagogy English Education
	YODA, Jun	European History
	ICHIKAWA, Ken	English Education
	TOBA, Motoko	English Education Applied Linguistics
	SATO, Fumitoshi	Algebraic Geometry
Senior Lecturer	TOKUNAGA, Shintaro	TESOL, East Asian History
	NOGUCHI, Naoshi	Japanese Literature
	TACHIKAWA, Naoki	Electrochemistry Lithium Battery
	KADOWAKI, Dai	Japanese Literature
	NODA, Kazuto	Condensed Matter Theory
	KAWAMURA, Masaya	Differential Geometry
	SHIRAIISHI, Maresuke	Cosmology



Learning English by a Native Speaker



Department of General Education



A Lesson in the Multimedia Room



Class at Audio-visual Room

[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
	HATA, Nobuoki	British Literature
	FUJIHARA, Nobuhiro	Japanese Literature
Associate Prof.	HASHIMOTO, Ryuta	Number Theory Continued Fraction
	UEHARA, Shigenori	Geometric Topology General Topology
	MORI, Kazunori	English Teaching, CALL
	YOKOYAMA, Manabu	Methodology of Sports Training Health Education
Senior Lecturer	YAMAOKA, Kenjiro	Political Theory Refugee Studies
	TAKENAKA, Kazuhiro	Synthetic Organic Chemistry, Organometallic Chemistry
	MORIOKA, Takaaki	Teaching English to Speakers of Other Languages
Assistant Prof.	MORI, Akane	Classical Japanese Literature
	MASUMOTO, Shuhei	Operator Algebra, Set Theory
	SHIRAHATA, Yasuhiro	Solar Cells, Electrical and Electronic Materials

◇Curriculum

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



Department of General Education in Spring



Learning English Grammar at Multimedia LL

[Takamatsu Campus]

Elective Subject	Credits
Literature I	2
Human Science I -III	6
Social Science I -III	6
General Chemistry I -II	4
Physical 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
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	45 booths, 45 computers, 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.	YAMASAKI, Yojiro	Robotics Motion Control
	IWATA, Hiromu	Vibration Dynamics Solar Car
	KIHARA, Shigefumi	Applied Mechanics
	HASHIMOTO, Yoshio	Computational Dynamics
	KOJIMA, Takafumi	Thermodynamics Heat Transfer Engineering
	JODAI, Yoshifumi	Fluids Engineering
Associate Prof.	YOSHINAGA, Shinichi	Control Engineering
	TOKUDA, Taro	Strength of Materials Fracture Mechanics
	TAKAHASHI, Yoichi	Precision Machining Forming Processes
Assistant Prof.	KIMURA, Yuto	Molecular Dynamics
	MAEDA, Yusaku	Sensor Engineering



Bending Test of Metallic Materials



Graduation Research

◆ 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	



Computer Aided Design & Drafting



Solar Car and Eco Car

◆ Main Experiment Facilities

Room	Main Equipment
Workshop Lab.	Ultra-Precision Machine, Wire-Cut EDM Systems, Hobbing Machine, Precision Lathe
Mechanical Measurement 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
Material 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, FFT Analyzer, Signal Analyzer
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, BASIC FA Study Kits, Pocketcomputer Controlled AGV Testing System
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

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.	SHIKAMA, Tomokazu	Semiconductor Physics Thin Films Engineering
	SHIGETA, Kazuhiro	Information and Communication Engineering Educational Technology
	TUJI, Masatoshi	Electronic Circuit Microwave Engineering
	URUSHIHARA, Shiro	Motion Control Control Engineering
Associate Prof.	TARAO, Hiroo	Electromagnetic Compatibility Bioelectromagnetics
	MURAKAMI, Yukikazu	Educational Technology
	KAKIMOTO, Takeshi	Software Development Management
Senior Lecturer	YAMAMOTO, Masashi	Material Science
Assistant Prof.	HINAMOTO, Yoichi	Digital Signal Processing
	YOSHIOKA, Takashi	Motion Control Motor Drive
	KITAMURA, Daichi	Statistical Signal Processing, Machine Learning



Lecture



Experiment of Electronics

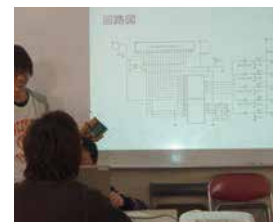
◆ Curriculum

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



Practice of Information Processing



Presentation of Circuit Design

◆ Main Experiment Facilities

Room	Main Equipment
Measurement Control Lab.	SCR Inverter, Electric Machine Training System, He-Ne Laser, Optical Power
Electronics and Information Lab.	Curve tracer, 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.	SOGO, Hiroyuki	Kinematics Robotics
	TOKUNAGA, Hidekazu	Computational Learning Theory Web Mining
	SOUMA, Takeshi	Energy Engineering Energy Materials
Associate Prof.	YURA, Satoshi	Control Engineering Motion Control
	SHIMASAKI, Shin-ichi	Electromagnetic Processing of Materials
	SHOBAKO, Shinichiro	Welding & Joining Arc Plasma
Senior Lecturer	ISHII, Kohei	Biomedical Engineering
	TSUMORI, Nobuhiro	Nanophotonics Near-field Optics
Assistant Prof.	KAWAKAMI, Yusuke	Kansei Engineering, Signal Processing
	YAMASHITA, Tomohiko	High Voltage Engineering, Pulsed Power



Checking Robots



An Autonomous Robot



Working with Lathe Machine



Checking Electronic Components

Curriculum

Classification	Subject	Credits	Classification	Subject	Credits
Compulsory	Engineering Literacy	2	Elective	Mechanics of Materials II	2
	Applied Mathematics I	2		Engineering Materials II	2
	Applied Mathematics II	2		Thermal Engineering II	2
	History of Science and Technology	1		Fluid Engineering II	2
	Intellectual Property	1		Electric and Electronic Circuits II	2
	Electromagnetics I	2		Information Processing A	2
	Manufacturing Processes	2		Information Processing B	2
	Fundamental Mechanics	2		System Control Engineering II	2
	Engineering Materials I	2		Mechanical Dynamics	2
	Mechanical Engineering Design	2		Robotics	2
	Mechanics of Materials I	2		Mechanical Instrumentation	2
	Thermal Engineering I	1		Statistical Analysis	2
	Fluid Engineering I	1		Technical English	2
	Electric and Electronic Circuits I	2		Electromagnetics II	2
	Information Processing on Basis	2		Semiconductor Engineering on Basis	2
	Mechatronics I on Basis	3		Electronic Instrumentation	2
	Mechatronics II on Basis	3		Sensor Devices	2
	Mechatronics III on Basis	3		Job Training	1
	Mechatronics System Design	2		Special Lecture I	1
	System Control Engineering I	2		Special Lecture II	1
	Technical Japanese Rhetoric	1		Special Lecture III	1
	Training and Exercise I on MONOZUKURI Basis	3		Special Lecture IV	1
	Training and Exercise II on MONOZUKURI Basis	3		Pre-research Activity I	1
Training and Exercise III on MONOZUKURI Basis	2	Pre-research Activity II	1		
Experiment I	4	Pre-research Activity III	1		
Experiment II	4	Advanced Programming Training I	4		
Graduation Research	8	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
	MIYAZAKI, Kosuke	Infrastructure Planning Transportation Planning
Associate Prof.	ARAMAKI, Noritaka	Geotechnical Engineering Resource Development Engineering
	TAGAWA, Tadashi	Sanitary Engineering Environmental Engineering
	YANAGAWA, Ryoichi	Coastal Disaster Management Engineering Coastal Ecosystem Engineering
Senior Lecturer	HAYASHI, Kazuhiko	Concrete Engineering Maintenance Engineering
	IMAOKA, Yoshiko	Urban Planning Welfare Engineering
	TAKAHASHI, Naoki	Hydraulic Engineering Ecological Engineering
Assistant Prof.	MATSUMOTO, Masayuki	Earthquake engineering Seismic engineering
	HASEGAWA, Yuki	Concrete Engineering Agricultural Engineering



Loading of steel structure



Surveying

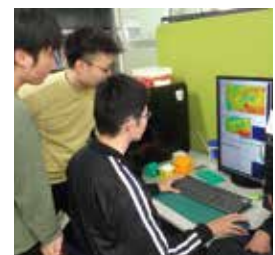
◆ Curriculum

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	



Hydraulic Experiment



Numerical Model Analysis

◆ 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, CHN analyzer, Autoclaves, Centrifuge, Ultra pure water system, Acid rain collect, 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

Electronics, Information and Communication Engineering Division (Takuma Campus)

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.	SHIOZAWA, Takahiro	Optical Electronics Microwave Photonics
	SAWADA, Shiro	Theoretical Physics
	INOUE, Tadaaki	Communications Measurement
	ISSHIKI, Hiromi	Biomedical Engineering
Associate Prof.	MANABE, Katsuya	Electromagnetic Theory Microwave Theory and Techniques
	TAKAJO, Hideyuki	Educational Technology Ubiquitous Computing
	SHOHON, Toshiyuki	Coding Theory Communication Engineering
	ONO, Akira	Telecommunication Electronic Circuit
	KUMEKAWA, Kazuya	Computer Networks
	SHIRAISHI, Keiichi	Computer Algebra e-Learning
	Senior Lecturer	KAWAKUBO, Takashi



Wireless Communication Experiment



Optical Fiber Communication



Radar Detection



Computer Network Experiment

◆ 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

◆ 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
	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	
Telecommunications Law I	2	
Telecommunications 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	

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
	NAGAOKA, Shiro	Integrated Circuits
	YAGI, Masakazu	Solid State Physics
Associate Prof.	MIKAWA, Michio	Solid State Physics
	JOHNSTON, Robert Weston	Computer Science
	TSUKIMOTO, Isao	Electronic Circuits
	TENZOU, Hideki	Energy Engineering
Senior Lecturer	MORIMUNE, Taichiro	Solid State Physics
	SHIMIZU, Tomo	Semiconductor Devices
	IWAMOTO, Naoya	Semiconductor Devices
Assistant Prof.	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
	Electronics	2
	Electronic Circuits I	2
	Electronic Circuits II	2
	Semiconductor Electronics	2
	Semiconductor Device Engineering	2
	Digital Circuits I	2
	Digital Circuits II	2
	Electronic 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 Electronic 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 System A	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

◆ Main Experiment Facilities

Room	Main Equipment
Common Lab.	Liquid Crystals, 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 Yield 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-Mercuric Auto Fundus Camera, Pulse Oximeter
Materials Engineering Lab.	Pulsed Laser Deposition System, Sputtering Apparatus, Hall Effect Measurement System, X-ray Diffraction Equipment
Plasma Sintering Lab.	Spark Plasma Sintering 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.	FUKUMA, Kazumi	Physics
	MIYATAKE, Akiyoshi	Educational System Engineering
	TOKUNAGA, Shuichi	Image Processing
	SAWARAME, Masashi	Information Systems
	KANAZAWA, Keizo	Image Processing
	KAWATA, Jun	Plasma Surface Interaction
Associate Prof.	KONDOH, Yuji	Computer Algebra
	OKUYAMA, Shingo	Algebraic Topology
	KAWAZOME, Hayato	Plasma Spectroscopy
	SASAYAMA, Manabu	Information Retrieval Machine Translation
Senior Lecturer	TANIGUCHI, Yasutaka	Theoretical Nuclear Physics
Assistant Prof.	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
	Communication 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
	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	
Information 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	



Simulator of Microcomputer



Control_experiment



3D Content Creation for Virtual Reality



Demonstration in 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 Lab.	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
		Modern Physics	2
	Elective	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
	Elective	Seminar II	2
		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
Eng. Subjects of EC Course	Elective	Reliability Engineering	2
		Electromagnetic Compatibility	2
		Modern Control Theory	2
		Energy Conversion Engineering	2
		Project Management Theory	2
		Solid State Electronics	2
		Integrated Circuits	2
		Semiconductor Physics	2
		Power Electronics	2
		Information and Communication Engineering	2
Eng. Subjects of MS Course	Elective	Microwave Engineering	2
		Digital Signal Processing	2
		Knowledge Computing	2
		Image Processing Engineering	2
		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		
Eng. Subjects of CV Course	Elective	Advanced Control Engineering II	2
		Mechatronics	2
		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		



Analysis using Motion Capture



Internal Combustion Engine



Water Quality Analysis

ME Course...Mechanical Engineering Course

EC Course...Electrical and Computer Engineering Course

MS Course...Electro-Mechanical Systems Engineering Course

CV Course...Civil Engineering Course

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
		Advanced Physical Science	2
		Topics Applied Mathematics	2
	Elective	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
		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	
	Elective	Algorithms and Data Structures	2
		Multi-Media Engineering	2
		Image Processing	2
		Special Lectures	2
		Communication Engineering	2
		Radio and Light Wave Engineering	2
		Optical Communications	2
		Specialized Radio Engineering	2
		Applied Solid State Physics	2
		Integrated Electronics	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 Imagine Cup 2015 at Microsoft Corporate headquarters.
(Image provided courtesy of Microsoft Corp.)



An international conference NANO Scitech2017

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 (DNU)	China	Dec. 2018

◆ Organization of International Symposiums/Seminar (2015-2019)

- ◆ "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.
- ◆ "International Seminar on NanoScience and Nanotechnology (NANO-SciTech)," Feb. 2016, and March 2019
- ◆ "Eco-Energy and Materials Sciences and Engineering Symposium", Dec. 2016, and April 2018
- ◆ "International Conference on Nanoscience & Nanotechnology" 2017,2018 Shah Alam, Selangor. Malaysia.
- ◆ "International Seminar on Electronics Engineering and NANO Technology", Mar.2017.
- ◆ "International Conference on Creativity, Inovation, and Invention on Digital Technology(CIIDT)", Dec 2018
- ◆ "The 3rd NIT-NUU Bilateral Academic Conference.", Sep 2019

◆ International Exchange and Academic Activities by Faculties and Students(2015-2019)

- ◆ International internship at local offices of Japanese firms; in Thailand (2015), Hong Kong (2016), Vietnam(2015) Malaysia(2015, 2016 and 2017).
- ◆ "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), and to UFRT (Mar.2020)
- ◆ 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), and from UFRT (Apr. to Jun. 2019), from RMUTT (May. to Jul. / May. to Aug. / Jun. to Aug. 2019, Nov. 2019 to Jan. 2020)

◆ International Students at NITKC

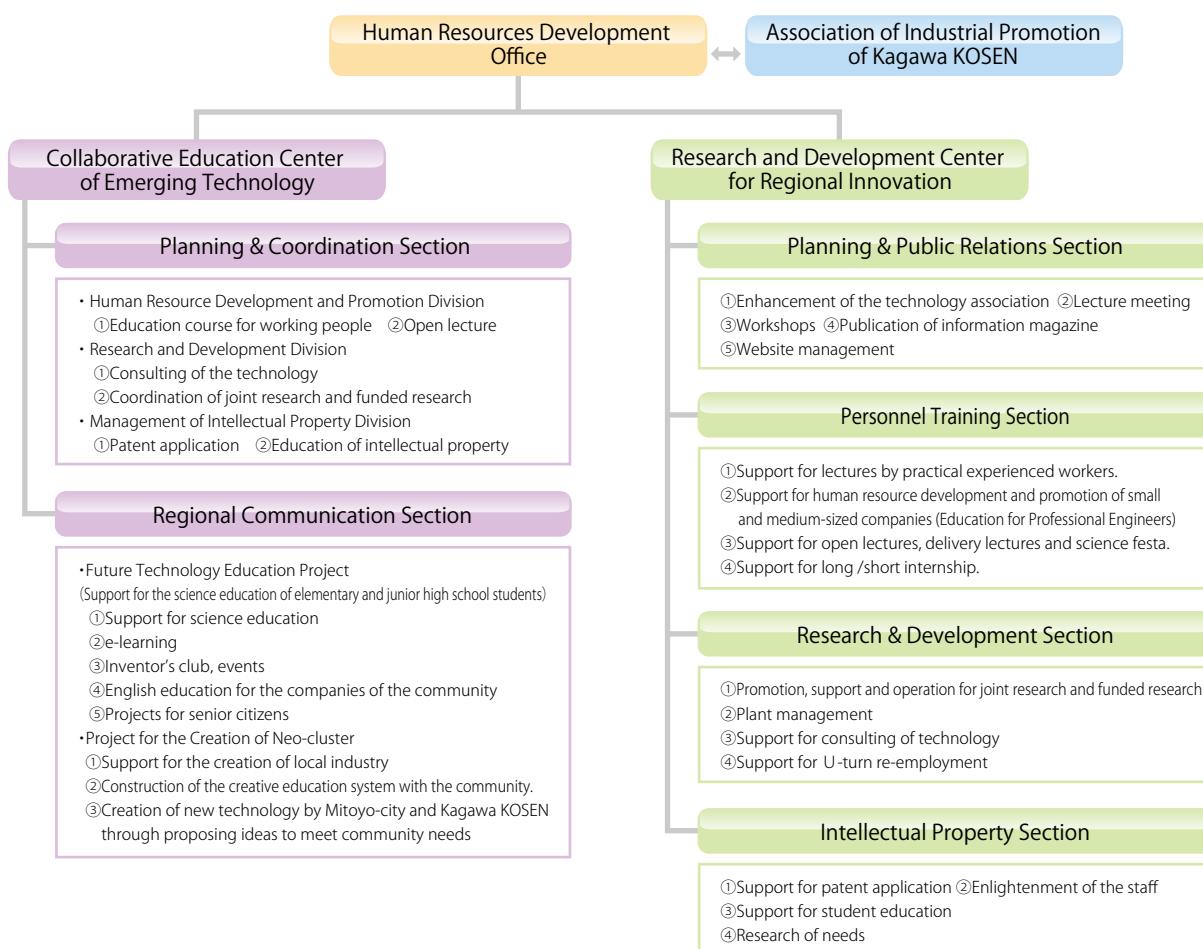
■ Number of International Students Entering Mid-course/Advanced course of NITKC in Each School Year

School Year	Bangladesh	Brazil	Cambodia	China	Colombia	India	Indonesia	Kenya	Korea	Lao PDR	Malaysia	Mongolia	Philippines	Sri Lanka	Thailand	Uganda	Viet Nam	Pakistan	Madagascar	Total	
2020											2	5			(1)				1	9	
2019											2	1			(1)				1	5	
2018												3									3
2017											2	2			1						5
2016											4	1			1						6
2015									(2)	1		1						1			5
2014							2				2										4
1985~2013	7	1	4	5	1	1	11	1	2	8	70	6	9	7	10	2	11				156
Total	7	1	4	5	1	1	13	1	4	9	82	19	9	7	14	2	11	1	2		193

() :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 would like to develop the 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. Lecture meeting about technologies, lecture class, Workshop, 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:

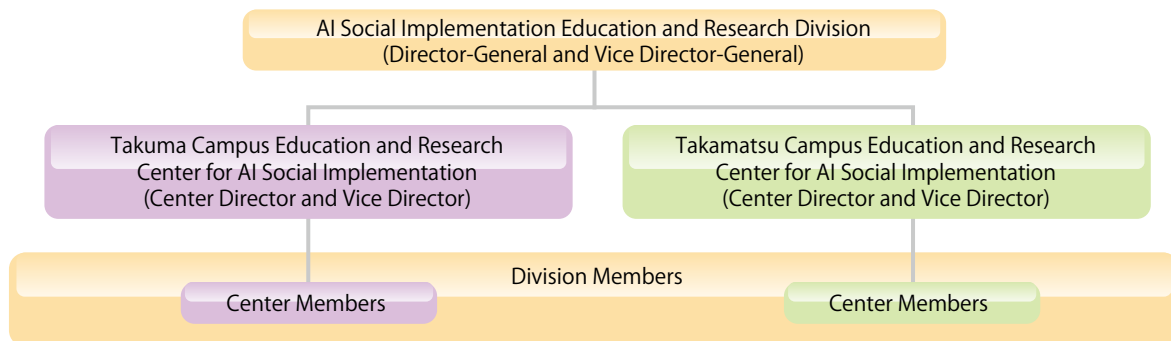
Anan, Kagawa, Niihama, Yuge and Kouchi KOSENs utilize the potentials of the colleges and aspects of the Shikoku-area, and spread out the activities of the academic-industrial alliance to contribute to the stimulation and promotion of the local area.

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 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	MISAKI, Yukinori (Professor, Department of Electronic Systems Engineering)
	Vice Director-General	TOKUNAGA, Hidekazu (Professor, Department of Electro-Mechanical 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	KANAZAWA, Keizo (Professor, Department of Information Engineering)
Takamatsu Campus Education and Research Center for AI Social Implementation	Center Director	TOKUNAGA, Hidekazu (Professor, Department of Electro-Mechanical Systems Engineering)
	Center Vice Director	MURAKAMI, Yukikazu (Associate Professor, Department of Electrical and Computer Engineering)

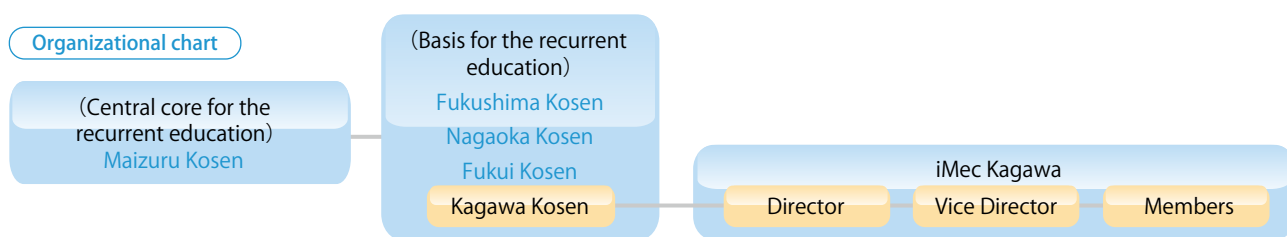
Infrastructure Maintenance Educational Center



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

The deterioration of civil infrastructure such as roads and bridges has become social issues, and it is necessary to develop engineers for maintenance. iMec Kagawa offers practical education which combines e-learning and lecture-style courses on maintenance, skill training courses on damage inspections and non-destructive tests and experience-based learning courses using educational materials from actual deteriorated bridges. These educations are offered to students, local government officials and private-sector engineers.

'The development of KOSEN-type academic-industrial cooperation for infrastructure maintenance human resource development' has been adopted by 'Sustainable industry-academia joint human resource development system construction project' supported by the MEXT (Ministry of Education, Culture, Sports, Science and Technology) from FY 2019. Kagawa Kosen builds the basis for the recurrent education in community in collaboration with Maizuru Kosen, Fukushima Kosen, Nagaoka Kosen, and Fukui Kosen.



Facilities

Following structural members collected from actual deteriorated bridges were placed in practical training facility for infrastructures.



Overview of the space



Reinforced concrete slab



Reinforced concrete girder



Steel rivet girder



Steel truss bridge and supports



Non-destructive inspection by electromagnetic wave radar

Staffs

Director	HAYASHI, Kazuhiko (Associate Professor, Civil Engineering Department)
Vice director	IRIE, Masaki (Program-Specific Teacher)
Members	HASEGAWA, Yuki (Assistant Professor, Civil Engineering Department)
	MATSUMOTO, Masayuki (Assistant Professor, Civil Engineering Department)

Research

◆ Grants-in-Aid for Scientific Research

Proposal of farm work inheritance manual using eye camera
Development of an Educational Tool in Radiation Shielding by Using a Mock Survey Meter and the Educational Assessment
Teaching material development kit for computer network and computer algebra
Utilize and Characterize human skill for Sports-coaching.
A Study on English Writing Process Applying Machine Translation and the Meaning-order Approach to Pedagogical Grammar
Research on the structure of female employment in engineering at minor enterprises
Mechanistic Study and Development of Catalytic Palladium Enolate Umpolung Reactions
Evaluation on supply-demand balance of irrigation water and development of small-scale reservoir facility using terraced paddy field in The Kingdom of Bhutan
Possibility on the introduction of stock management system for irrigation facilities in Viet Nam
Computational fluid dynamics analysis and wind tunnel experiment on wind farm of closely spaced vertical axis wind turbines
Researches on holomorphic mappings of Riemann surfaces—extension and applications of handle conditions
Development of an interaction system based on measurement of wind pressure
Development of an affective monitor system for evaluating Web class students
Heart rate monitoring system attaching to finger nail: experiments in daily life environment
Addition effects of halogen compounds on electron transport properties of lead-free perovskite solar cells
Design of Human-machine Cooperative Manufacturing System for Smart Factory
Friendship between Refugees and Us: the Politics of Refugee Protection
An Empirical Study of Cross-Cultural Training in English Education Using Culture Assimilators
Study on optimal energizing conditions of 500 kHz current for apical periodontitis treatment
Elucidation of the effect of adding trace amounts of oxygen in decomposition of polymers using hydrogen radicals
Study on a fishway design suitable for the upstream migration for reproduction of the endangered loach (*Parabotia curtus*) in paddy field areas
Identification of missing data mechanisms peculiar to software development data
Research on Interview Dialogue to obtain User's good points by Conversation Robot
Development of a Bunraku Robot which can be Operated by One Person
Audio Augmented Reality and Extension of Audio Communication Ability Based on Small Data Machine Learning Theory
Piezo Resistance Effect of p-type Germanium
Determining the inflationary particle content through the cosmological collider physics
A study of signal processing of hammering inspection test with deep learning
Unification of Deep Learning and Generalized Mathematical Model for Independence-Based Audio Source Separation
Development of a structural-color type sensor to detect lesion hardness and grasping state for flexible endoscope operation
Application of high voltage and pulsed power technologies to the recycling of metal-coated plastics
Study on Improving the Seismic Performance of Transmission Tower Based on Additional Damping by Using the Control Device for the Earthquake
Development of an Educational System to Provide for Virtual Labyrinthine Streets Based on Lines Drawn on a Paper
Construction of a teaching material matching system to solve the problem of programming education in elementary school
Development of Systematic Learning Materials Based on ITSS
Study to bring up an engineer by lot toy development
A Location-Based AR Application to Display Cosmic Radiation Dose Rates on Flying Aircrafts in Real Time
4 another research study, Number of Research Studies 41, Total Funds 43,437,600Yen

◆ Commissioned Research

Improvement of high leveling support system for agricultural production technology utilizing ICT
A Collaboration Project between Mitoyo City and The National Institute of Technology, Kagawa College
Surface-mounting of electronic components to stretchable circuit board
A Mitoyo City and The National Institute of Technology, Kagawa College Collaboration Project (Harmful Indigenous Species)
Monitoring system for electric wire inspection workers in mountainous areas
Wearable pulse wave sensor attaching to finger nails for long-term and multi-point measurement
Number of Research Studies 6, Total Funds 17,115,873Yen

◆ Cooperative Research with Private Sector

Study on the development of portable fishways for agricultural water facilities
Development of a Waste Treatment Plant for Recycled Home Appliances
Feasibility of industrial methane production in the subsurface environment via microbial activities
On Sharing Cybersecurity Information Observed by NICTER
Study on Application of an Optical Fiber Grating Device
Research for interfered sound reduction in music signals
Study on the disaster prevention equipment of an overhead traveling crane
Study on development of wireless river monitoring system
Joint development of tourism promotion Web application "MITOYO-QUEST"
Numerical simulation on fluid flow during dc casting with electromagnetic stirring
Examination of the effect of piles on the ground reaction force of hanging sidewalk blocks by model experiments
Development of medical device without uncomfortable wearing feeling using smart textiles
Development of High-Performance Lead-Acid Batteries
Development of a crow repellent system for power stations with deep learning
Upgrading of a power transmission line inspection robot
Study of Fluorine Treatment Technology
Development of a lighting system for optical inspections with deep learning
A High-Sensitivity Sensor Equipped Respiration Monitoring System for Infants and the Elderly
Design of Force Control System with High Back-drivability for Safety Human-machine Cooperative Working System
10 another research studies, Number of Research Studies 29, Total Funds 9,955,000Yen

◆ Other Competitive Funds and Grants

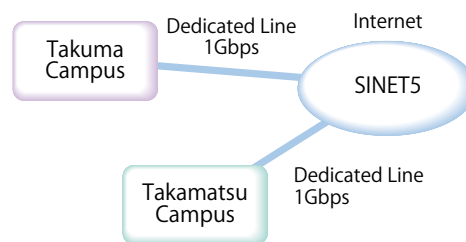
Development of portable fishways that can be attached to and removed from agricultural channels and establishment of utilization methods for conservation of paddy field ecosystem
Development of bridge management system fusing automatic drawing restoration technology and deep learning system
Science Classes in Kodomo Miraikan Children's Center of Takamatsu City
KOSEN network type space human resources development through ultra-small satellite development
Development of a simulator for nuclear structure changes and reactions by using antisymmetrized molecular dynamics
Study on Gas Mileage Improvement of Eco-Car by Computational Fluid Dynamics
A Study on the Urban Infrastructure Development: Case Study on the Survey of Residence Selection in Takamatsu Marugamemachi Shopping Street
Enhancement of Safety and Smoothness for Human-machine Cooperative Working System Considering Acceleration Information
Design and Evaluation of Elliptical Patch Antenna for Radiated Emission Premeasurement
Study on Improving the Seismic Behavior of Transmission Steel Tower by Using the Tuned Mass Damper
Study on Mathematical Model of Plasma Actuator
3 another research studies, Number of Research Studies 14, Total Funds 16,578,966Yen

Facilities

◇ Networking and Computing Service Center

■ Network Infrastructure

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



Network Between Two Campuses and SINET5

■ 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 Second Seminar Room, Cyber Lab, Advanced Information Lab, and Multimedia Learning Lab, and are used for education on computer literacy and academic research. All of the students can take advantage of the Internet using e-mail and WWW.



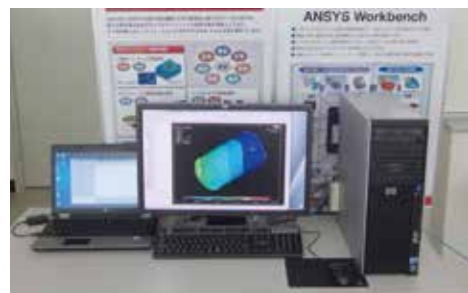
Takuma Campus Second Seminar Room

◇ 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: RF magnetron sputtering system; Plasma CVD; Vacuum evaporation system; Electron beam lithography system; X-ray diffraction system for thin-film crystalline analysis; Scanning electron microscope; Surface profiler; General-purpose FEM analyzer; X-ray fluorescence spectrometer; X-ray diffractometer; Scanning probe microscope; Ellipsometer; Absorption spectrophotometer; Scratching tester.



Scanning Electron Microscope



General-purpose FEM Analyzer

Students

Number of Students

Department

Classification	Admission Capacity	Enrollment					Total
		1st	2nd	3rd	4th	5th	
Department of Mechanical Engineering	40	42(3)	42(2)	44(0)	48(3) [1]	33(2)	209(10) [1]
Department of Electrical and Computer Engineering	40	42(6)	46(6)	45(6)	41(4)	38(3)	212(25) [0]
Department of Electro-Mechanical Systems Engineering	40	42(4)	42(3)	44(5)	37(4)	35(3)	200(19) [0]
Department of Civil Engineering	40	42(9)	41(8)	43(9) [1]	45(12) [1]	37(9) [1]	208(47) [3]
Department of Communication Network Engineering	40	43(8)	45(11)	41(10)	38(2)	38(10) [1]	205(41) [1]
Department of Electronic Systems Engineering	40	43(5)	36(8)	43(9)	43(5) [1]	45(5)	210(32) [1]
Department of Information Engineering	40	44(9)	41(9)	41(5)	42(5) [1]	32(5) [1]	200(33) [2]
Total	280	298(44)	293(47)	301(44) [1]	294(35) [4]	258(37) [3]	1,444(207) [8]

Faculty of Advanced Engineering

Classification	Admission Capacity	Enrollment		Total
		1st	2nd	
Advanced Course in Industrial and Systems Engineering	24	36(7)	42(0)	78(7)
Advanced Course in Electronics, Information and Communication Engineering	18	23(4)	14(2) [1]	37(6) [1]
Total	42	59(11)	56(2) [1]	115(13) [1]

() Female.
 [] Overseas Students
 As of May. 1, 2020

Clubs and Associations of People Sharing Common Interests

Sports Clubs

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

Cultural Clubs

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

Societies

Drama Society	Painting Society
Calligraphy Society	Photograph Society
Cheer Team	SPOT Society
Literature Society	

Dormitories

■Seiun-ryo (Takamatsu Campus)

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

- 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㎡)
- Common rooms a-study room, a seminar room to study Japanese, lounges with a kitchenette, laundry room, bath room and a cafeteria

◇Number of Dormitory Students

School Year	1st	2nd	3rd	4th	5th	Faculty of Advanced Engineering	total
No. of Dorm studs	37(5)	38(4)	38(1) (1)	27(5) (2)	17(6) (1)	0(0)	157(21) (4)

() : Number of Female Students within Total, < > Number of Overseas Students within Total As of May 1, 2020



West Dormitory & North Dormitory



South Dormitory

■Shippo-ryo · Shiun-ryo (Takuma Campus)

Takuma Campus has two block sets of dormitory buildings, one of which is "Shippo-ryo" and the other is "Shiun-ryo". The dormitory accommodations consist of three buildings, which are called Second, Third and Fourth Block. Presently, male students stay at Second and Third Block in Shippo-ryo, while female students use Fourth Block in Shiun-ryo.

- Shippo-ryo (Takuma Campus) Two houses 4-story building 26 shared room with 2 beds(13.5㎡), 9 shared room with 2beds etc(27㎡)
Three houses 5-story building 46 private rooms(9㎡), 69 shared room with 2 beds etc(18㎡)
- Shiun-ryo (Takuma Campus) Four houses 5-story building 12 private rooms(9㎡), 38 shared room with 2 beds etc(18㎡)
- Common rooms Study hall, a computer room, Lounge, lounges with a kitchenette, laundry room, bath room and a cafeteria

◇Number of Dormitory Students

School Year	1st	2nd	3rd	4th	5th	Faculty of Advanced Engineering	total
No. of Dorm studs	53(9)	38(8)	27(6)	38(3) (2)	38(7) (2)	8(0) (1)	202(33) (5)

() : Number of Female Students within Total, < > Number of Overseas Students within Total As of May 1, 2020



Shippo-ryo & Shiun-ryo



Cafeteria

After Graduation

■Employment or Academic Situation

As of April, 1, 2020

◇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	40	13	27	0	747
	Department of Electrical and Computer Engineering	40	16	24	0	
	Department of Electro-Mechanical Systems Engineering	42	16	24	2	
	Department of Civil Engineering	41	13	27	1	
Total		163	58	102	3	
Course	Advanced Course in Industrial and Systems Engineering	31	3	28	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	33	9	24	0	624
	Department of Electronic Systems Engineering	38	17	21	0	
	Department of Information Engineering	38	16	22	0	
Total		109	42	67	0	
Course	Advanced Course in Electronics, Information and Communication Engineering	21	5	16	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-jo(Gymnasium for Martial Arts)
- 15 Training Room for Sports
- 16 Meeting Place for the Staff
- 17 Clubrooms①
- 18 Clubrooms②
- 19 Wind Tunnel Laboratory
- 20 Jikyo-kaikan(Welfare Facilities)
- 21 Wakei-kan(Site of a Training Camp)
- 22 Seiun-ryo(North Dormitory)
- 23 Seiun-ryo(South Dormitory)
- 24 Seiun-ryo(West Dormitory)
- 25 Seiun-ryo(Dining Hall of Dormitory)
- 26 Swimming Pool
- 27 Athletic Field
- 28 Handball Court
- 29 Tennis Court
- 30 Baseball Field
- 31 Tennis Courts
- 32 Tennis Court
- 33 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
- 8 Lecture Building2
- 9 Library-Student Affairs-Career-Support-Nurse Station
- 10 Dormitory Administration
- 11 Shippo-ryo②(Dormitory)
- 12 Shippo-ryo③(Dormitory)
- 13 Shiun-ryo(Dormitory)
- 14 East Dormitory
- 15 West Dormitory
- 16 Boiler Room of Dormitory
- 17 Warehouse for Dormitory
- 18 Bathhouse for Dormitory
- 19 Gymnasium1
- 20 Gymnasium2
- 21 Martial Arts Gymnasium
- 22 Reserve Student Building
- 23 Warehouse for Physical Education
- 24 Building for the Swimming Pool
- 25 Student Commons Building
- 26 Reserve Faculty Building
- 27 Museum of Technology
- 28 Guard's Room
- 29 Garage
- 30 Housing for the Staff
- 31 Swimming Pool
- 32 Baseball-Soccer Field
- 33 Athletic Field
- 34 Tennis Courts

Accounting

◇ Revenue and Expenditure (2019)

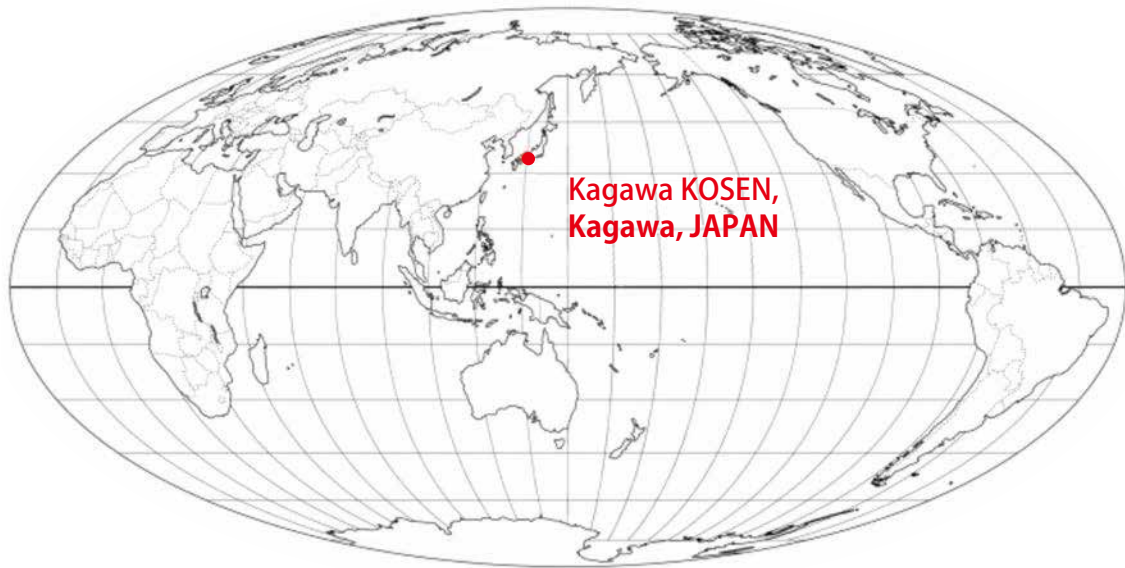
● Revenue (a monetary unit: 1,000yen)

Grant for working Expenditure	73,619
Facilities Improvement Expenses	213,290
Self-Revenue	
Tuition and Entrance Examination Fee	389,136
Miscellaneous Revenue	7,395
Industry-University Cooperation Research Revenue and Donation	60,752
Other Subsidy	42,895
Total	787,087

● Expenditure (a monetary unit: 1,000yen)

Educational Research Expenses	416,646
General Administrative Expenses	68,266
Facilities Improvement Expenses	213,290
Industry-University Cooperation Research and Donation Project Expenses	44,963
Other Subsidy	42,895
Total	786,060

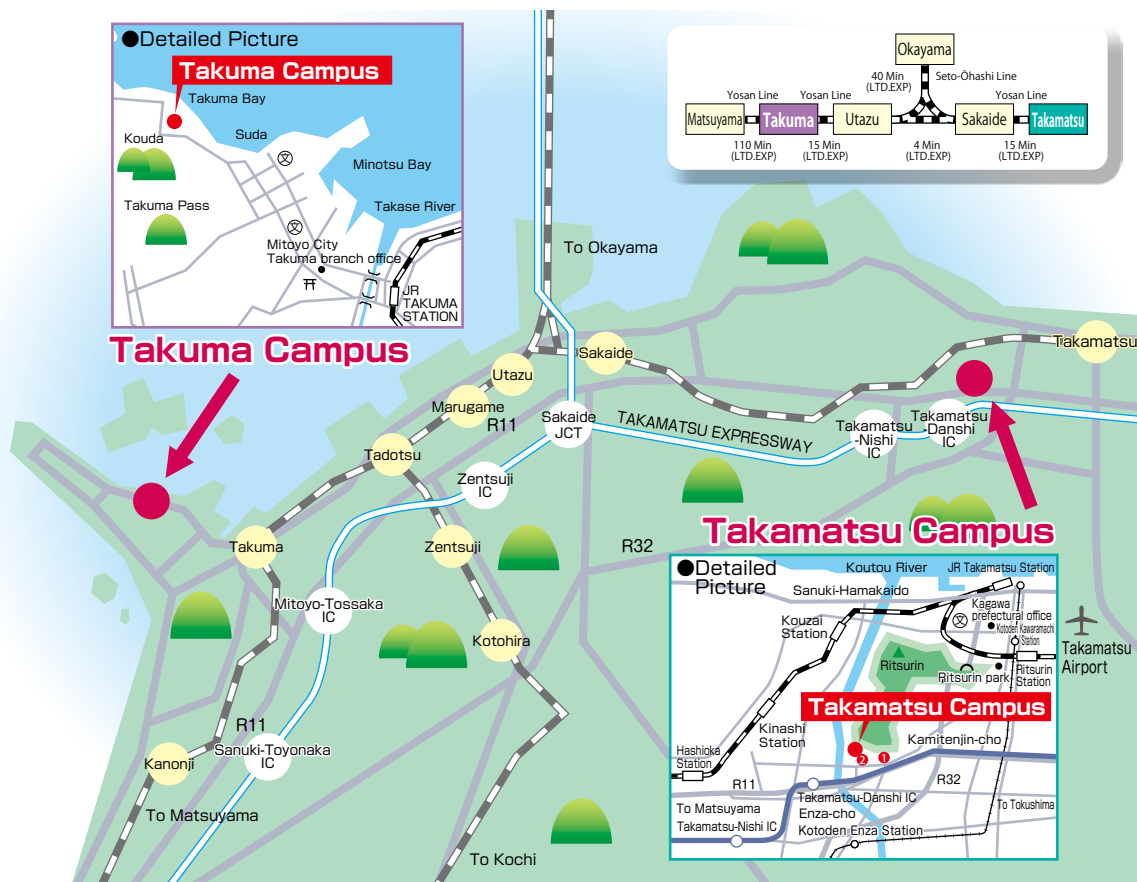
Access from International Airports to Kagawa KOSEN



- 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 stop²
25 minutes by car
Kotoden Bus(No.5 bus stop) for Yusa-Iwasaki,
Yusa-Ikenishi or Ikenishi-Konanrakuyu → 10 minutes walk
from Koyama bus stop¹
- **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

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761-8058 Japan
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National Institute of Technology, Kagawa College
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