

Institute of National Colleges of Technology, Japan Kagawa National College of Technology [Kagawa Kosen]

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TEL +81-875-83-8506

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



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.

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Institute of National Colleges of Technology, Japan Kagawa National College of Technology [Kagawa Kosen]



Kagawa National College of Technology was established by the incorporation and reorganization of Takamatsu National College of Technology and Takuma National College of Technology together 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 the rapid progress of science and engineering and with a harmony of 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 from 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 18,000 students graduate and secure meaningful employment in the private sector, municipal and prefectural governmental offices, universities, and research institutes. The 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.

Takeshi Yao President

Mission of Kagawa National College of Technology

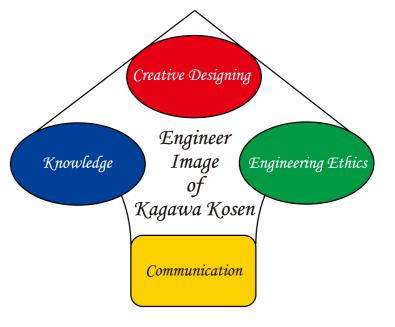
Mission of Kagawa National College of Technology (Kagawa Kosen)

- \bigcirc 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: \diamond 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.
- changing times.
- problems of society.
- \diamond To develop the students' intellect, as well as communication skills, in order to prepare them for international career paths.



 \diamond To train students to have the technological Knowledge and applicable skills for coping with these fast

 \diamond To train students to be engineers of the future, who can apply their imagination to tackle the complex

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History

♦History

April, 1962	Takamatsu National College of Technology(Takamatsu Kose was established. It consisted of two departments: the Department Mechanical Engineering and the Department of Electrical Engine ing.
April, 1966	Takamatsu Kosen was restructured into three departments: t Department of Mechanical Engineering, the Department Electrical Engineering and the Department of Civil Engineering
Ancil	Tokomotou Kooon waa zastrustrused ista faur dangstraasta t
April, 1990	Takamatsu Kosen was restructured into four departments: t Department of Mechanical Engineering, the Department Electrical Engineering, the Department of Electro-Mechanic Systems Engineering and the Department of Civil Engineerin
	Department of Mechanical Engineering, the Department Electrical Engineering, the Department of Electro-Mechanic
1990 April,	Department of Mechanical Engineering, the Department Electrical Engineering, the Department of Electro-Mechanic Systems Engineering and the Department of Civil Engineerin

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.

Takuma National College of Technology (Takuma Denpa Kosen) * Takuma Campus of Kagawa Kosen

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

1945 Kanritsu Osaka Musen Densin Koshujo (Osaka National School of Radio Telecommunications).

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

- April, Takuma Denpa High School became Takuma National College of Technology (Takuma Denpa Kosen). It consisted of one 1971 department of Radio Engineering.
- April, Takuma Denpa Kosen was restructured into two departments: 1976 the Department of Radio Engineering and the Department of Electronics.
- April, Takuma Denpa Kosen was restructured into three departments: 1980 the Department of Engineering, the Department of Electronics and the Department of Information Engineering.
- April. Takuma Denpa Kosen was restructured into four departments: 1985 the Department of Radio Engineering, the Department of Electronics, the Department of Information Engineering and the Department of Control Engineering.
- April, The Department of Radio Engineering was renamed the 1989 Department of Telecommunication Technology.

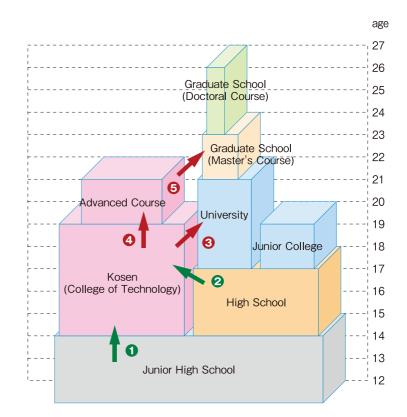
April, Takuma Denpa Kosen was reorganized and was affiliated with 2004 the Institute of National Colleges of Technology. Advanced Engineering Course was established.

were incorporated and reorganized as Kagawa National including seven departments were set up: Industrial and formation and Communications Division (Takuma Campus). eering, Dpt of Electrical and Computer Engineering, Dpt of Engineering (Takamatsu Campus); Dpt of Communication ing 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.

School System of Japan

Ochart of Organization

	Takamatsu Campus						
	Vice President	President A	ide • Dean of Educational Affairs		Vice Dean of Educati	ional Affairs	Assistant Dean of Educational Affairs
	-	President A	ide • Dean of Student Affairs		Vice Dean of Studen	t Affairs	Assistant Dean of Student Affairs
	-	President A	ide • Dean of Dormitory Affairs		Vice Dean of Dormit	ory Affairs	Assistant Dean of Dormitory Affairs
	-	Departmen	t Dean of General Education				
	-	Departmen	t Dean of Mechanical Engineering				
		- Departmen	t Dean of Electrical and Computer Eng	ineerina			
			t Dean of Electro-Mechanical Systems				
				Linghiteening			
			t Dean of Civil Engineering				
		Educational Rese Director of I					
			,				
		[Student Counse Chief of Stu	ling Institution) dent Counseling Institution				
	-	Chief of Stu	dent courseling institution				
	Takuma Campus Vice President	Drosidont A	ide • Dean of Educational Affairs		Vice Dean of Educati	ional Affairs	Assistant Dean of Educational Affairs
	Vice Flesidelit		ide • Dean of Student Affairs		Vice Dean of Studen		Assistant Dean of Student Affairs
			ide • Dean of Dormitory Affairs		Vice Dean of Dormit	ory Attairs	Assistant Dean of Dormitory Affairs
			t Dean of General Education				
	-	Departmen	t Dean of Communication Network En	gineering			
President	-	Departmen	t Dean of Electronic Systems Engineeri	ing			
	-	Departmen	t Dean of Information Engineering				
		[Educational Rese	earch Institution]				
	-	Director of I	Library				
		[Student Counsel					
		Chief of Stu	dent Counseling Institution				
	[Organization of Whole Campus	1					
	Eorganization of Mildle Campus	Chief of Adv	vanced Course		Chief of Advanced C	ourse in Industrial an	d Systems Engineering
					Chief of Advanced C	ourse in Electronics,II	nformation and Communication Engineering
		[Educational Rese					
	-		working and Computing Service Cent	er	Deputy Chief		
		[Promotional Act					
	-	General Ma	nager of Human Resources Developm	ent Office –	Deputy Manager		porative Education Center of Emerging Technology
		[Promotional Act				Director of Coop	erative Research & Development Center
	-	President A	ide • Chief of General Affairs and Prom	iotional Activity	Deputy Chief		
		Drosidont A	ide • Chief of International Exchange P	Promotional Office	Deputy Chief		
		President A	ide • Chiel of International Exchange P	romotional Office	Deputy Chief		
	_	Website Ad	ministrator				
			earch Support Center]				
	-		Technical Education Support Center		Deputy Director	Chief of Takam	atsu Campus
		[Student Counsel				Chief of Takum	a Campus
			eer Support Center	_	Deputy Chief		
				,			
	[Organization of Admini	istration Bureau]					
	Director of Administ	ration Bureau	Head of General Affairs Section	Assistant Head	Chief of General Adm	inistration Section	
					Chief of Personnel and	d Labor Management	Section
					Chief of Research Coc	peration Section	
				Assistant Head	Chief of General Affair	rs Section	
					Chief of Area Coopera		
				Officer(General Aff	airs and Information)		
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			Head of Administration Section	Assistant Head	Chief of Financial Affa	irs Section	
					Chief of Contract Sect	tion	
				Assistant Head	Chief of Accounting		
			Head of College Affairs Section	Assistant Head	Chief of College Affair	rs Section	
					Chief of Entrance Exa		
					Chief of Student Supp		
					Chief of Student Livel		
					chief of student liver	inood / india 5 Section	
			Head of Student Affairs Section	Assistant Head	Chief of Educational A	Affairs Section	
					Chief of Student Affai	rs Section	
					Chief of Dormitory Af	fairs Section	
					Official (Academic Inf		
			Head of Facility Section	Assistant Head	Chief of Construction	Section	
					Chief of Electrical Sect	tion	
					Chief of Equipment Se		
					 Chief of Facility Maint 		
					Official (Facility Section		
					Conciar (rachity bectlo	y	



1 Junior high school graduates are eligible to enroll at a college of technology.

- graduate program.

Kosen(College of Technology)

- Kosens(five-year schools to teach engineering to junior high school graduates)were established in 1961, in response to a strong demand from the industrial sector for fostering engineers to sustain Japanese economic growth.
- A two-year advanced course system was introduced in 1991.
- In 2004, the Institute of National Colleges of Technology was inaugurated to manage 55 national Kosens throughout Japan.
- Approximately 300,000 students have graduated so far, contributing actively not only to the industrial world but also to the academic sector, as engineers, researchers, managers and so on.

2 High school graduates are eligible to enroll at a college of technology as transfer students.

③ National College of Technology graduates are eligible to enroll in a university as transfer students.

4 National College of Technology graduates are eligible to enroll in an advanced course.

(5) National College of Technology Advanced Course graduates are eligible to enroll in a university

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.

OFulltime Academic Staff in Department of General Education

[Takamatsu Campus]

Title	Name	Research Field		
	HASEGAWA, Takashi	Japanese Literature of War		
	KONO, Michihiro	Criminal Law & Procedure Constitution		
	IDEBUCHI, Mikiro	Methodologies of Teaching English		
Prof.	TANIGUCHI, Hiroaki	Algebraic Combinatorics		
PIUI.	SAKAMOTO, Tomotsugu	History of Ancient Chinese Thoughts		
	OKANO, Hiroshi	Inorganic Materials Chemistry Thin Film Engineering		
	TAGUCH I , Jun	History of Educational Thought		
	SAWADA, Isao	Statistical Mechanics Condensed Matter Theory		
	TAKAHASHI, Hiroaki	Topology Mathematical Physics		
	ITO,Kikuyo	Cross-language Speech Perception		
	NAKASE, Mikio	Sports Methodology Coach Methodology		
	HASHIMOTO,Norifumi	Synthetic Organic Chemistry Catalytic Chemistry		
Associate Prof.	YOSHIZAWA, Kousei	Theory of Sports Training		
	NAGAHARA,Shinobu	Modern Literature		
	YODA, Jun	European History		
	SATO, Fumitoshi	Algebraic Geometry		
	ENDO, Tomoki	Computational Physics. Theoretical Nuclear Physics		
Assistant Prof.	ICHIKAWA,Ken	English Education		

[Takuma Campus]

Title	Name	Research Field
	TORIGOE, Hidetomo	Teaching Methodologies Corpus Linguistics
Prof.	MINAMI, Takayuki	Differential Equation Hamiltonian System
FIUI.	UCHIDA, Yuriko	Japanese History Career Education Women's Studies
	TOJO, Toshiki	Japanese Literature
	HATA, Nobuoki	British Literature
	ARIMA, Hirotoshi	Methodology of Coaching
	FUJIHARA, Nobuhiro	Japanese Literature
	HASHIMOTO, Ryuta	Number Theory Continued Fraction
Associate	HIGASHIDA,Yoji	Theoretical Physics
Prof.	UEHARA, Shigenori	Geometric Topology General Topology
	MORI, Kazunori	English Teaching, CALL
	MIZUNO, Chizuko	English Education
	YOKOYAMA, Manabu	Methodology of Sports Training Health Education
	NAKAMURA, Tokuhiro	Atmospheric Chemistry
	HASEBE, Kazuki	Theoretical Physics
Assistant Prof.	YAMAOKA, Kenjiro	Political Theory Refugee Studies
	HOSHINO, Ayumu	Mathematical Physics, Representation Theory





epartment of General Education





Class at Audio-visual Room

◇Curriculum

Compulsory Subject
Japanese I-II
Geography
History I, I
Civics I, II
Fundamental MathematicsI-II
Differential and Integral Calculus I, I
Mathematical Analysis
Physics I, I
Chemistry I, II
Health and Physical Education I-IV
Art I, II
English IA, IB
English IIA, IIB
English IIA, IIB
Language Seminar
Science Seminar
Career Support

[Takamatsu Campus]	[Takum	
Elective Subject	Credits	
Japanese Literature I	2	Japane
Human Science I-II	6	Social S
Social Science I-II	6	Topics
Environmental Chemistry	2	Mather
Principles of Physical Chemistry	2	Health
Health and Physical Education V	1	English
English IV, V	5	Chinese
Language Seminar I	2	Overse
Overseas English Program	1	Teachir

⊘Main Experiment Facilities

Takamatan Camana	Room	Main Equipment		
	Physics Laboratory	High Vacuum Pump, Spectroscope, Induction Coil		
Takamatsu Campus	Chemical Laboratory	Sputtering System, PH Meter, Draft Chamber with Scrubber		
	Language Laboratory	46booths, 46Computers, e-learning		
	Language Laboratory	4000tris, 46computers, e-learning		
	Language Laboratory	40000ths, 4000mputers, e-rearning		
	Room	Aboutins, Abcumputers, eleanning Main Equipment		
Takuma Campus	Room Physics Laboratory			
Takuma Campus	Room	Main Equipment		

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epartment of General Education in Spring



Learning English Grammar at Multimedia LL

[Takuma Campus]

Elective Subject	Credits
Japanese Literature I	2
Social Science I, I	4
Topics in Natural Science	1
Mathematics Seminar I-II	3
Health and Physical Education V	1
English for Specific Purposes I, I	4
Chinese I, I	4
Overseas English Program	1
Teaching Support Activity	1

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
	OKADA, Kenji	Reliability Engineering Strength and Fracture of Materials
	KIHARA, Shigefumi	Applied Mechanics
Prof.	IWATA, Hiromu	Vibration Dynamics Solar Car
	HASHIMOTO, Yoshio	Computational Dynamics
	FUKUI, Satoshi	Fatigue of Materials Design Engineering
	YAMASAKI, Yojiro	Robotics Motion Control
Associate Prof.	YOSHINAGA, Shinichi	Control Engineering
	JODAI, Yoshifumi	Fluids Engineering
	ITO, Tsutomu	Materials physics Welding Science
Assistant Prof.	TAKAHASHI, Yoichi	Precision Machining Forming Processes

♦Curriculum

Classification	Subject	Credits	Classification
	Applied Mathematics		
	Engineering Physics I	2	
	Introduction to Mechanical Engineering	1	
	Mechanics	1	
	Strength of Materials I	2	
	Strength of Materials I	2	
	Working Technology	2	
	Machine Element Design I	1	
	Machine Element Design II	2	
	Engineering Materials I	2	
	Dynamics of Machinery	2	
	Thermodynamics	2	
Compulsory	Hydraulics	2	Elective
Compaisory	Electrical Engineering	2	
	Control Engineering	2	
	Fundamental Programming	2	
	Numerical Methods I	2	
	Mechanical Design & Drafting I	2	
	Mechanical Design & Drafting I	2	
	Computer Aided Design & Drafting I	3	
	Fundamental of Working Exercise I		
	Fundamental of Working Exercise I		
	Fundamental of Working Exercise II		
	Mechanical Experiment I	0	
	Mechanical Experiment I	~	
	Graduation Research	8	-

on	Subject	Credits
	Mathematical Methods in Engineering	2
	Engineering Physics I	2
	Strength of Materials II	1
	Theory of Elasticity	1
	Engineering Materials I	1
	Heat Transfer Engineering	1
	Fluids Dynamics I	1
	Electronic Engineering	2
	Computer Engineering	0
	Mechanism	1
	Systems Engineering I	1
	Numerical Methods I	2
	Computational Mechanics	2
	Computer Aided Design & Drafting II	4
	Technical English I	1
	Technical English II	1
	Strength & Fracture of Materials	1
	Heat Engines	1
	Systems Engineering II	1
	Fluids Dynamics II	1
	Special Lectures on Engineering I	1
	Special Lectures on Engineering I	1
	Special Lectures on Engineering II	1
	Job Training	1
	Introduction to Engineering Frontier	1

OMain Experiment Facilities

Room	Main Equipment
Machining Lab.	Ultra-Precision Machine, Wire-Cut EDM Systems, Hobbing Machine, Precision Lathe
Measuring Lab.	Non-Contact 3D Measuring Machine, Surface Finishing Indicator, Micro Hardness Tester
Material Strength Lab.	Universal Materials Testing Machine, Fatigue Testing Machine, Torsion Tester, Charpy Impact Tester
Metallographic Lab.	Optical Microscope, Electric Furnace, Hardness Tester, SPD Equipment
Sharing Lab.	Hydraulic Servo-Mechanical Fatigue Testing Machine
Dynamics 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, LCR Meter
Training Factory	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 Fi
	MORIMOTO, Toshifumi	Radiowave Engineering
Prof.	HARAZONO, Masahiro	Acoustical Information Engineering Digital Signal Processing
PIUI.	HONDA, Michitaka	Imaging Technology, Medical Radiation Physics and Technology
	SHIKAMA, Tomokazu	Semiconductor Physics Thin Films Engineering
	SHIGETA, Kazuhiro	Information and Communication Engineering Educational Technology
	TSUJI, Masatoshi	Electronic Circuit Microwave Engineering
Associate Prof.	URUSHIHARA, Shiro	Motion Control
	TARAO, Hiroo	Electromagnetic Compatibility Bioelectromagnetics
	MURAKAMI, Yukikazu	Educational Technology
Assistant Prof.	KAKIMOTO, Takeshi	Software Development Management
Research	HINAMOTO, Yoichi	Adaptive Signal Processing
Associate	YAMAMOTO, Masashi	Material Science

♦Curriculum

sification	Subject	Credits	Classification	Subject	Credits
	Engineering Mathematics I	2		Engineering Mathematics II	2
	Engineering Mathematics I	2		Physics	2
	Fundamentals of Physics	2		Electromagnetics I and Exercise	З
	Electric Fundamental-Mathematics	2		Electrical Circuits I and Exercise	З
	Electrical Fundamentals I	2		Electronics Circuits I and Exercise	4
	Electrical Fundamentals I	2		Introduction of Semiconductor Physics	2
	Electromagnetics I and Exercise	3		Algorithms	2
	Electrical Circuits I and Exercise	З		Study Guide for Technical English	2
	Electrical Physics	1		Communication Engineering	2
	Fundamentals of Electronics	2		Control Science	2
	Fundamentals of Measurement Engineering	2		Digital Instrumentation and Control	2
	Fundamentals of Computer Mathematics	1	Elective	Information and Coding Science	2
	Logic Circuits	1		Statistical Data Processing	2
mpulsory	Fundamentals of Information Processing I	2		Signal Processing	2
	Fundamentals of Information Processing I	2		Electric and Electronic Materials	2
	Fundamentals of Information Processing II	2		Interface	2
	Operating Systems	2		Electronics Circuit I and Exercise	2
	Information and communication network	2		Multimedia Engineering	2
	Computer Hardware	2		Electronic Device	2
	Energy Engineering in Environment	2		Computer Simulation	2
	Practice of Elementary Creation I	2		Job Practice	1
	Practice of Elementary Creation I	2		Special Lecture	1
	Experiments of Electronics and Computer Science I	3		Introduction to Engineering Frontier	1
	Experiments of Electronics and Computer Science I	3			
	Applied Experiments on Electronics and Computer Science	3			
	Thesis Research	6			
	Special Practice	1			
	Design of Circuit	2			

OMain 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, Logio 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.	Hopping Robot, Linear Motor Positioning System, Inverted Pendulum System, Image Processing 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
	HIRAOKA, Nobuaki	Mechatronics
Prof.	SOGO, Hiroyuki	Kinematics Robotics
	KURIHARA,Yoshitake	Signal Processing
	TOKUNAGA, Hidekazu	Conputational Learning Theory Web Mining
	YURA, Satoshi	Control Engineering Motion Control
Associate Prof.	SOUMA, Takeshi	Energy Engineering Energy Materials
	SHIMASAKI,Shinichi	Electromagnetic Processing of Materials
	HENMI, Tomohiro	Control Engineering
Assistant Prof.	SHOBAKO, Shinichiro	Welding & Joining Arc Plasma
Research	ISHII,Kohei	Biomedical Engineering
Associate	TSUMORI,Nobuhiro	Nanophotonics Near-field Optics



Applied Mathematics Engineering Mathematics Physics I Physics II Manufacturing Processes Fundamental Mechanics Mechanics of Materials I Engineering Materials I Thermal Engineering I Fluid Engineering I Electric Circuits Electronic Circuits Electiv Information Processing I Compulsory Mechatronics I on Basis Mechatronics II on Basis Mechatronics III on Basis Mechatronics System Design System Control Engineering I Technical Japanese Expression Technical Japanese Expression II Training and Exercise I on MONOZUKURI Basis Training and Exercise II on MONOZUKURI Basis Training and Exercise II on MONOZUKURI Basis Experiment I Experiment I Graduation F

	Mechanical Engineering Design	2
	Mechanics of Materials II	2
	Engineering Materials I	1
	Thermal Engineering I	1
	Fluid Engineering I	1
	Electronics	2
	Information Processing I	2
	Information Processing II	
	System Control Engineering I	2
	Mechanical Dynamics	0
	Robotics	2
Э	Mechanical Instrumentation	1
	Statistical Analysis	2
	Technical English	2
	Computer Network	2
	Welding and Joining	2
	Laser Processing	2
	Electromagnetics	2
	Electronic Instrumentation	2
	Sensor Devices	2
	Planning	2
	Job Training	1
	Introduction to Engineering Frontier	1

⊘Main Experiment Facilities

Engineer M	aterial Lab.	Optical Microscope, Electric Furnace, Video Microscope, Vickers Brinell and Rockwell Hardness Tester
Mechanics	of Material Lab.	300kN Universal Testing Machine, Torsion Tester Charpy Impact Testing Machine, Rotating Bending Fatigue Testing Machine
Thermal En	gineering Lab.	High-frequency Induction Furnace, Electrometer, Laser Displacement Sensor
Electronics	Lab./Electronic Control Lab.	Oscilloscope, Digital Multi-Meter, Function Generator, Electronic Voltmeter, Universal Counter, LCR Meter, PCB-CAD/CAM
CAD Room		Video Projector, Personal Computer, 3D CAD
Exercise Ro	om	Video Projector, Personal Computer, 3D CAD
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 I	_ab.	Air Micrometer, Micro-Indicator, Tool Micrometer Microscope
Training Fac	otory	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 F
	DOI, Masanobu	Geotechnical Engineering Rock Mechanics
Prof.	KOTAKE, Nozomu	Geotechnical Engineering Geoenvironmental Engineering
	MIZUKOSHI, Mutsumi	Materials Engineering Concrete Engineering
	TSURUMOTO, Yoshihiro	Hydromechanics Engineering Coastal Engineering
	MUKA I TANI, Mitsuhiko	Geotechnical Engineering Irrigation Pond Science
Associate Prof.	MIYAZAKI, Kosuke	Infrastructure Planning Transportation Planning
	TAGAWA, Tadashi	Sanitary Engineering Environmental Engineering
	HAYASHI, Kazuhiko	Concrete Engineering Maintenance Engineering
	IMAOKA, Yoshiko	Urban Planning Welfare Engineering
Research Associate	TAKAHASHI,Naoki	Hydraulic Engineering Ecological Engineering
	MATSUBARA, Saburo	Surveying Materials Engineering

♦Curriculum

			 	_
		Credits	Classification	
	Physics I	2		
	Applied Mathematics I	2		
	Introduction to Civil Engineering	2		
	Basic Drawing	1		
	Fundamental Mechanics I, II	4		
	Structural Mechanics I	0		
	Structural Materials	0		
	Structural Design	3		
	Basis of Disaster Prevention Engineering	2		
	Regional Disaster Prevention Engineering			
	Elements of Environmental Engineering	1	Elective	
ompulsory	Environmental Engineering I	2	LIECTIVE	
	Regional Environmental Engineering	1		••••
	Foundamental Information Processing	2		••••
	Advanced Computer Engineering	2		••••
	Currowing I II	2		••••
	Urban and Regional Planning	2		••••
	Regional Urban and Regional Planning	1		••••
	Practices in Civil Engineering I, II, II	3		••••
	Engineering Study with Creative Training			••••
	Experiment and Practice in Civil Engineering I. II			••••
	Civil Experiments and Exercises I. II. II	6		·
	Civil Engineering Design and Draft I. II	4	1	-
	Graduation Research	6		
	Giduuduuri nesedi Cli	0		

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⊘Main Experiment Facilities

Structural Engineering Lab.	Static and dynamic loading machine, Beam testing machine Multi-channel data recorder, Servo-type 1D&2D shaking tab
Materials Engineering Lab.	Universal material testing machine (Cap. of 3000kN), Strain co testing apparatuses for various concrete, Concrete curing wate
Hydraulic Engineering Lab.	Three dimensional channel, Movable channels, Wave making ch
Geotechnical Engineering Lab.	Automatic consolidation testing apparatus, Universal compress Large-scaled universal direct shear apparatus, Falling head per
Environmental Engineering Lab.	Ion chromatography, Gas chromatograph-mass spectrometer, CHN analyzer,
Computer room	Personal computer(46sets), page printers(2set), Local area ne
Equipment room	Total station, Digital type theodolites(4set), Automatic levels, E
Drafting room	Drafting table angle boards(45set), Plate girder model, Truss b

e	ld																										
	••••		•••		•••	••••			 	 			•••		•••	•••		•••	•••	•••	•••	•••	•••	•••		•••	
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	Credits
Physics I	1
Applied Mathematics II	2
Introduction to Electrical Engineering	1
Structural Mechanics I	2
Soil Mechanics	
Hydromechanics	
Construction Method	2
Hydrology	1
Coastal Engineering	1
Environmental Engineering II	2
Environmental Impact Assessment	2
Applied Computer Engineering	2
Surveying II	2
Structural Engineering	2
Geotechnical Engineering	2
Information Processing Engineering	2
Structures in Architecture	2
Advanced Environmental Engineering	2
On the Job Training	1
Special Lecture I	1
Special Lecture II	1
Introduction to Engineering Frontier	1









es, Digital static strain meters, Dynamic strain meters, Universal counter, bles, 2D soil tanks

control universal testing machine, Revolving-blade concrete mixer, Center hole oil jacks and oil pumps, iter bath, Data loggers, Digital displacement meters, Electronic balances(9seats)

hannels. Shape-created weir, Pipe line with a Venturi meter, Wave height indicators, Various recorders ssion testing apparatus. Cyclic triaxial compression test apparatus. armeability test apparatus, B-type viscometer, High speed camera, Various soil testing apparatus

, Autoclaves, Centrifuge, Ultra pure water system, Acid rain collect, Cyclic Triaxial test apparatus, Constant temperature ov etwork, Video recorder system, Teaching material presentation system . Electro-optical distance meters(4set). Plane table. Pranimeters, Stereoscope bridge model, Various drafting instruments

Kagawa National College of Technology 🔹 9

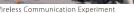
- Department of Communication Network Engineering

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
	FUKUNAGA, Tetsuya	Information Theory Communication Theory
	SHIOZAWA, Takahiro	Optical Electronics Microwave Photonics
Prof.	SAWADA, Shiro	Theoretical Physics
1101.	INOUE, Tadaaki	Communications Measurement
	ISSHIKI, Hiromi	Biomedical Engineering
	YOKOUCHI, Takashi	Applied Technology of Optical Fiber
	MANABE, Katsuya	Electromagnetic Theory Microwave Theory and Techniques
	TAKAJO, Hideyuki	Educational Technology Ubiquitous Computing
Associate Prof.	SHOHON, Toshiyuki	Coding Theory Communication Engineering
	ONO, Akira	Telecommunication Electronic Circuit
	KUMEKAWA, Kazuya	Computer Networks
Assistant	SHIRAISHI, Keiichi	Computer Algebra e-Learning
Prof.	KUSAMA, Yusuke	Microwave Engineering
Research	KAWAKUBO, Takashi	Field Emission Surface Physics
Associate	ARAI, Shintaro	Nonlinear Circuits and Systems Intelligent Transport Systems











⊘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
Analog Circuit Lab.	Sampling Oscilloscope, Spectrum Analyzer, Logic Scope
Digital Circuit Lab.	Pulse Pattern Generator, Error Rate Detector, Optical Spectrum Analyzer, Optical Amplifier, Optical Power Meter, Wavelength Variable Optical Attenuator
Information Network Exercise Room	Training Equipments for LAN (Local Area Network) Integration (Routers, Switching Hubs, Wireless LAN Access Points, Personal Computers)
Applied Electromagnetic Wave Lab.	Radar, Satellite Compass, AIS (Automatic Identification System) Receiver, Radio Direction Measurement Equipment, Radio Transmitter, Radio Receiver, Microwave Fundamental Measurement Equipment

⇔Curriculum

Curricu	lum	
ssification	Subject	Credits
	Applied Mathematics	2
	Probability and Statistics	2
	Applied Physics I	2
	Applied Physics I	2
	Electric Engineering	2
	Information Processing I	2
	Information Processing I	2
	Digital Circuits I	2
	Electric Circuits I	2
	Electric Circuits II	2
mpulsory	Electromagnetics I	2
inpuisory	Electromagnetics II	2
	Electronic Circuits I	2
	Electronic Circuits II	2
	Electric and Electronic Measurements I	2
	Electronics	2
	Seminar on Communication Engineering	4
	Creative Experiments and Practices	4
	Experiments and Practices	2
	Experiments in Communication Network Engineering	2
	Experiments in Communication Engineering I	3
	Experiments in Communication Engineering I	4
	Graduation Research	12
	Information Processing II	2
	Logic Circuit Design	2
	Electric and Electronic Measurements I	2
	Wireless Communication Engineering I	2
	Wireless Communication Engineering I	2
	Antennas and Propagation	2
	Antenna Engineering	2
	Communication System A	2
	Communication System B	2
	Telecommunications Law I	1
	Telecommunications Law I	
	Network Theory	·····!
	Computer Networks I	2
	Computer Networks I	2
	Information Theory	2
	Radiowave Engineering	1
ective	Seminar on Radio Engineering	·····¦
	Data Communications	2
	Control Engineering	2
	Semiconductor Electronics	2
	Digital Image Processing	<u>-</u>
	Signal Processing	2
	Optoelectronics	····· 5
	Mathematics for Information Science	<u>-</u>
	Information Security	····· 5
	Network Programming	2
	Computer Science	<u>-</u>
	System Engineering	2
	Environment and Human Society	1
	Factory Training Special Lectures	
	Introduction to Engineering Frontier	
	introduction to Engineering FIUITURI	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
	TASHIMA, Shinichi	Control Engineering
	MURAKAMI, Junichi	Instrument Engineering
Prof.	MISAKI, Yukinori	Robot Engineering
	NAGAOKA, Shiro	Integrated Circuits
	YAGI, Masakazu	Solid State Physics
	KINOSHITA, Toshiharu	Robot Engineering
Associate Prof.	MIKAWA, Michio	Solid State Physics
	JOHNSTON, Robert Weston	Computer Science
	TSUKIMOTO, Isao	Electronic Circuits
Assistant	TENZOU, Hideki	Energy Engineering
Prof.	MORIMUNE, Taichiro	Solid State Physics
	SHIMIZU, Tomo	Semiconductor Devices
Research Associate	FUJ II , Hiroyuki	Robot Engineering









OMain Experiment Facilities

Room	
Common Lab.	Liquid Crysta, Tunable Filters, Cooled CCD Camera, Multispect
Digital Circuit Lab.	Equipment of Supply Current Test to Detect Lead Opens of C
Computer Engineering Lab.	Oscilloscope, Radiation Detector, Analog Waveform Processi
Circuit Design Lab.	Laser Surface Processing System, Photoelectron Yield Spec
Physical properties Lab.	Laser Displacement Sensor, Optical Element(polarizer, quarte
Optoelectronics Lab.	Diffraction-grating monochromator(f=1m, 30cm, 20cm), He-
Electronics Lab.	Infrared Thermal Camera, 3D Printer, 3D Scanner, Tabletop N

⇔Curriculum

		Credit
	Applied Mathematics	2
	Probability and Statistics	2
	Applied Physics I	2
	Applied Physics I	2
	Electric Engineering	
	Electric Circuits I	
	Electric Circuits I	
	Electromagnetics I	2 2
	Electromagnetics I	
	Electronics	2
Compulsory	Electronic Circuits I	2
	Semiconductor Electronics I	2
	Digital Circuits I	2
	Digital Circuits II	2
	Information Processing I	2
	Seminar in Electronic Systems Engineering I	4
	Seminar in Electronic Systems Engineering II	1
	Creative Experiments and Practices	4
	Experiments and Practicals	2
	Experiments in Information Engineering	4
	Experiments in Electronic Engineering I	7
		4
	Experiments in Electronic Engineering I	
	Graduation Research	12
	Solidstate Physics	2
	Network Theory	2
	Electronic Circuits I	2
	Semiconductor Electronics I	2
	Electronic Measurements	2
	Physics of Semiconductors	2
	Electronic Device Engineering	2
	Optional Electronaine	2
	Electrical and Electronic Materials	2
	Control Engineering I	2
	Control Engineering I	2
	Sequence Control	2
	Robot Engineering I	2
Elective		2
LICCUVC	Robot Engineering I	2
	Sensor Electronics	
	Information System I	2
	Communication System A	2
	Information Processing I	2
	Data Communications	2
	Image Engineering	2
	Operations Research	2
	Machanical Dynamics	2
	System Engineering	2
	Environment and Human Society	1
	Factory Training	
	Special Lectures	·····:
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Main Equipment
ctral Imaging System, Hyperspectral Camera f CMOS ICs. Oscilloscope, Current Probe, QuartusII(synthesis tool), ModelSim (simulation tool)
ssing System
ectroscopy, Interferometric Film Thickness Measurement System, Vacuum Evaporator rter-wave plate)
e-Cd laser, Ar ion laser,Cryogenic refrigerator
Microscope, Non-Mydriatic Auto Fundus Camera, Pulse Oximeter

- 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
	MATSUSHITA, Hiroaki	Design and Analysis of Algorithms
	FUKUMA, Kazumi	Physics
Prof.	MIYATAKE, Akiyoshi	Educational System Engineering
PIUI.	TOKUNAGA, Shuichi	Image Processing
	KAWATA, Susumu	Programming Instruction
	SAWARAME, Masashi	Information Systems
	KAWATA, Jun	Plasma Surface Interaction
Associate	KANAZAWA, Keizo	Image Processing
Prof.	KONDOH, Yuji	Computer Algebra
	OKUYAMA, Shingo	Algebraic Topology
Assistant	KAWAZOME, Hayato	Plasma Spectroscopy
Prof.	SASAYAMA, Manabu	Information Retrieval Machine Translation
Research	SUZUKI, Hiroshi	Cooperative Conveyance Control
Associate	OKUMURA, Noriyuki	Natural Language Processing Intelligent Information Processing

⇔Curriculum

Classification	Subject	Credits
	Applied Mathematics	2
	Probability and Statistics	2
	Applied Physics I	2
	Applied Physics I	2
	Electric Engineering	2
	Electric Circuits I	0
	Electromagnetics	0
	Electronic Circuits I	2
	Digital Circuits I	2
	Digital Circuits II	2
Compulsory	Information Engineering	2
comparoory	Computer Architecture	2
	Information Processing I	2
	Software Design and Development I	2
	Software Design and Development I	
	Seminar on Information Engineering	6
	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	3
	Graduation Research	12

	Mathematics for Information Science	2
	Numerical Analysis	2
	Communication Theory	2
	Electric Circuits II	2
	Semiconductor Electronics	2
	Digital Signal Processing	1
	System Engineering	2
	Automatic Control	
	Automaton Theory	2
	Data Structures and Algorithms	2
	Programming Language	2
	Operations Research	0
	System Programming	2
	System Software	2
	Human Interface	1
	Compiler	2
ivo	Information System I	0
ive	Information System II	0
	Knowledge Engineering I	2
	Knowledge Engineering I	2
	Digital Image Processing	2
	Database Management System	2
	Telecommunication System I	2
	Telecommunication System I	2
	Computer Networks I	2
	Computer Networks II	2
	Information Security	2
	Technical English	1
	Information Science I	1
	Information Science II	
	Environment and Human Society	1
	Factory Training	
	Special Lectures	
	Introduction to Engineering Frontier	1







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:

- \diamond 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.
- \diamond 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.

	Title	Name	
	Prof.	OKADA, Kenji	Department of
Industrial and Systems		SHIGETA, Kazuhiro	Department of
Engineering	Associate Prof.	HENMI, Tomohiro	Department of E
		MUKAITANI, Mitsuhiko	Department of
Electronics,		INOUE, Tadaaki	Department of
Information and Communication	Prof.	MURAKAMI, Junichi	Department of
Engineering		MATSUSHITA, Hiroaki	Department of





Advanced Course(Takuma

OMain Experiment Facilities

Room	
Control Circuit Lab.	3D Input/Output Device(3D Scanner, 3D Milling machine) 3D CAD/CAM software
Electric Lab.	Educational design and prototyping platform, LabVIEW, Electronic Circuit Simulator
Network Lab.	Experiment equipments for network skill acquisition(Router,L2.L3 switch)
NLP Lab.	The server for analyzing Big Data
ICT Lac.	203.2cm diagonal screen size Integrated Touch Display

of Mechanical Engineering
of Electrical and Computer Engineering
f Electro-Mechanical Systems Engineering
of Civil Engineering
of Communication Network Engineering
of Electronic Systems Engineering
of Information Engineering



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 anti-seismic, disaster prevention recycling, and environmental preservation techniques.

Eng. S of EC

Eng. Subj of CV Co

♦Curriculum

Cl	assification	Subject	Credits
iberal Arts	Compulsory	Management Theory TOEIC Preparation	2
Libera	Elective	Jurisprudence Classical Literature	2
	Compulsory	Engineer Ethics Topics in Mathematics I	2
Engineering Basic	Elective	Modern Physics Intellectual Property Rights English for Technical Purpose Topics in Mathematics II Physical Chemistry Analytic Chemistry Applied Physics Introduction to Civil Engineering Overseas English Program	2 2 2 2 2 2 2 2 2 2 2 2 1
Subjects	Compulsory	Experiments and Practicals I Experiments and Practicals I Thesis Research	16
Core Eng. Sub	Elective	Seminar Special Lectures Internship I Internship II Internship II Internship IV	4 2 1



sis using Motion Capture



Atmospheric Pressure Cold Plasma Generator

		Credits
	Internal Combustion Engines	2
	Computational Mechanics	2
_	Elasticity and Plasticity	2
Elective	Advanced Strength and Fracture of Materials	2
	Matrix Vibration Analysis	2
	Reliability Engineering	2
	Electromagnetic Compatibility	2
	Modern Control Theory	2
	Energy Conversion Engineering	2
	Project Management Theory	2
	Solid State Electronics	2
		2
	Integrated Circuits	
—	Optical Electronics	2
Elective	Semiconductor Physics	2
	Digital Technologies	2
	Telecommunication System Engineering	2
	Information and Communication Engineering	2
	Microwave Engineering	2
	Digital Signal Processing	2
	Acoustical Information Engineering	2
	Image Processing Engineering	2
	Advanced Heat Transfer	2
	Advanced Dynamics	2
	Optimization Theory	2
	Advanced Computer Processing	2
Elective	Advanced Joining Technologies	2
	Advanced Energy Engineering	2
	Advanced Control Engineering I	2
	Advanced Control Engineering I	2
	Mechatronics	2
	Structural Design I in Civil Engineering	2
	Structural Design I in Civil Engineering	2
	Prevention of Natural Disasters I	2
	Environmental Disaster Prevention Engineering I	2
	Advanced Hydromechanics	2
	Environmental Surveying	2
Elective	Environmental Ethics and Management	2
	Continum Mechanics	2
	Advanced Structural Materials	2
	Computational Analysis in Civil Engineering	2
	Civil Mathematical Planning	2
	Information Technology and Systems	2
	Introduction to Civil Engineering	2
	Seminars on Civil Engineering	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

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

This course has two sub-courses to educate students to be practical, highly sophisticated engineers with knowledge of originality in electronics, information and communication engineering.

Electronics and Information Engineering Course

This course is an educational program of engineers who follow the standards of JABEE (Japan Accreditation Board for Engineering Education).

Electronics, Information and Communication Engineering Vocational Course

This is the course in which students can be intent on the achievement of technology and expertise.

♦Curriculum

C	lassification	Subject	Credits	Classification	Subject	Credits
Itts	Compulsory	Communicative English I	2		Thesis Research	10
Liberal Arts	Compuisory	Communicative English I	2	Compulsory	Experiments and Exercise I	4
Libe	Elective	Advanced Japanese Literature	2		Experiments and Exercise II	6
<u>.0</u>	Compulsory	Engineer Ethics	2		Quantum Mechanics	2
Engineering Basic		Advanced Physical Science		ω.	Introduction to Information Technology	2
La La		Topics Applied Mathematics	2	act	Digital Signal Processing	2
eeri	Elective	Intellectual Property	2	jqr	Applied Electromagnetics	2
. <u></u>		English for Engineers	2	លី	Graph Theory	2
Ш		Engineering Mathematics	2	Dia 1	Information Networks	2
				Special Subjects	Specialized Electronic Circuits	2
					Industrial Instrument Engineering	2
					System Control Engineering	2
				E Elective	Algorithms and Data Structures	2
				8	Multi-Media Engineering	2
					Image Processing	2
					Internship I	1
					Internship II	2
					Internship II	4
					Internship IV	6
				-	Communication Engineering	2
			0	Elective	Radio and Light Wave Engineering	2
			6	Elective	Optical Communications	2
				0)	Specialized Radio Engineering	2
				outs	Applied Solid State Physics	2
			ng l	Elective	Integrated Electronics	2
				Sur	Digital Control Engineering	2
				sts	Object Oriented Programming	2
				Elective	Applied Network Programming	2
				Su	Database Design	2





ative Research Experiments

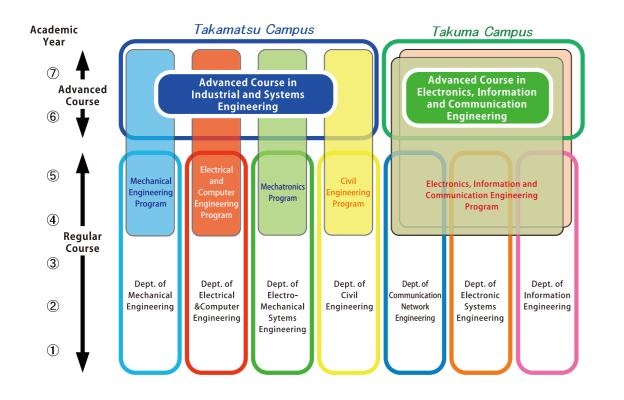
Patents Awarded to Students

CN…Communication Network ES…Electronic Systems

IT…Information

Engineering Education Programs

The Advanced Course in Kagawa Kosen is based on five education programs, which consist of Mechanical Engineering, Electrical and Computer Engineering, Mechatronics, Civil Engineering, Electronics, Information and Communication Engineering¹) programs to improve the qualification and quality of engineering education. Programs are designed as the steps for students to get the gualification of Professional Engineer (P.E.). Those who have finished the advanced course and education program and passed the primary examination of P.E. are gualified to become engineers that work on domestic or international stages.



Evaluation and Accreditation

The education programs of Takamatsu Campus and Takuma Campus in Kagawa Kosen have been accredited as appropriate education systems and programs for college of technology by NIAD-UE²) (National Institution for Academic Degrees and University Evaluation) since 2007. And four programs of Takamatsu Campus have been accredited by JABEE³ (Japan Accreditation Board for Engineering Education) since 2005 and 2006.

- 1) Electronics, Information and Communications Engineering program has two courses, and one is an educational program of engineers who follow the standards of JABEE, and other one is the course in which students can be intent on the achievement of technology and expertise.
- 2) The organization to accredit and evaluate the university, junior college and college of technology education programs and to assure the quality of education and research as Japanese higher education system.
- 3) An accreditation system as third party that can evaluate whether engineering education programs conducted by Japanese institutes of higher education such as university reach the expected levels.

International Affairs

Academic Exchange Agreements 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

◇Organization of International Symposiums/Seminar(2011-2013)

- Japan, May 2011.
- Kagawa, Japan, Jul. 2011.
- Mar. 2013.
- Alam, Malaysia, Mar. 2014.

◇International Exchange and Academic Activities by Faculty and Students

- ♦ Exhibition by KNCT students at the Korea Electronics Show with DMU, Oct. 2010 and Oct. 2012.
- ♦ International internship at local offices of Japanese firms; in Thailand (2009), Philippines (2010, 2012), China (2011 and 2013), Indonesia (2012), Hong Kong (2013), Singapore (2013), Taiwan(2013), and U.S.(2013)
- 2013), and all Departments (Oct. 2013).
- \diamond Student exchange from UiTM to Advances Course of KNCT, Jul. to Oct. 2011.

International Students at KNCT

Number of International Students Entering Mid-course of KNCT in Each School Year

Country School Year	Bangladesh	Brazil	Cambodia	China	Colombia	India	Indonesia	Kenya	Korea	Lao PDR	Malaysia	Mongolia	Philippines	Sri Lanka	Thailand	Uganda	Viet Nam	Total
2014							2				2							4
2013											1					1		2
2012											2				1			3
2011			1				1				З							5
2010										2	2	1						5
1985~2009	7	1	З	5	1	1	10	1	2	6	62	5	9	7	9	1	11	141
Total	7	1	4	5	1	1	13	1	2	8	72	6	9	7	10	2	11	160

◇"International Symposium on Geo-Environment Engineering (GEE) 2011," KNCT, Takamatsu, Kagawa,

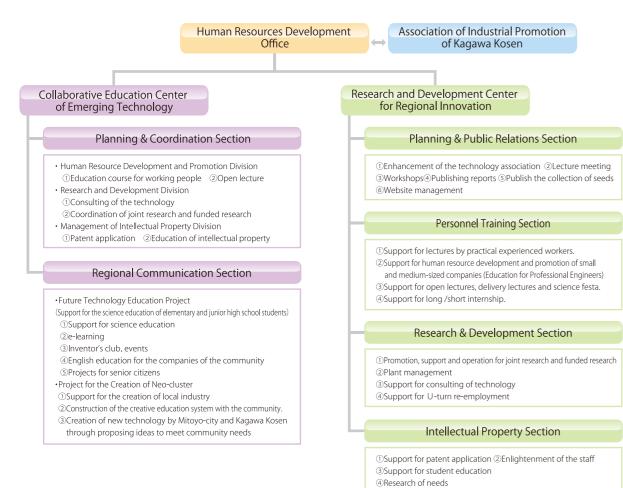
 \diamond "International Conference on Nanoscience, Nanotechnology and Nanoengineering 2014," UiTM, Shah

and Oct. 2013), Dept. of Mechanical Eng. (Jan. 2011), Dept. of Electrical and Computer Eng. (Sep. 2011), Dept. of Communication and Network Eng. (Jan. 2013), Dept. of Civil Eng.(Jun. 2013), Dept. of Civil Eng.(Oct.

◇ Research exchange with CSU and UiTM, Mar. 2011, Mar. 2012, Mar. 2013, and Mar. 2014.

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

Research

◇Grants-in-Aid for Scientific Research

The development of video materials and iPad applications to teach English for engine Study on functions on finite fields and finite geometries

- Separation control of flow over plate trailing edge with DBDPA
- Study on development of universal decoding algorithm for linear codes
- Study on the relationship between Social Exclusion and Public Transport Service
- Development of CZTS Solar Cells Using Organic Buffer Layers
- Abelian quotient vs Non-Abelian quotient
- Research about supersymmetric non-commutative geometry in higher dimensions ar Study on Visualization of Electromagnetic Waves and Its Real Time Three Dimensional The development of learning simulator of classic Japanese literature
- Development of body-conducted speech microphone using optical fiber bragg gratir LED Visible Light Communication System Using Portable Illumination Apparatus for Li Studies of fluoroscopic image processing and assessment for skin-dose reduction in x Digitalize the implicit knowledge of skilled baseball player by three demension motion An experimental study of corporate female human development designing long-term Development of Electric Injection Molding Machine using High-speed Estimated Inject Asseismic reinforcement and erosion control method for soil structures using materials Study on Measurement Method and Analysis Method of the Skill Work
- Solar Assist Battery Development of methods for quality evaluation of actual concrete structures by surfar Washout mechanisms of bridges by great tsunami and validation methodology of co
- Washout mechanisms of bridges by great tsunami and validation methodology of co Research on functional differentiation and quality guarantee in higher education thro Study of Photovoltaic Device with Nano-island oxides Development of Evaluation System for Kendo Practice Using Motion Sensor
- Number of Researches 25, Total Funds 32,117,000Yen

Commissioned Reseach

Innovation of Refractory Soluble Cutting Fluid Wastewater Treatment by Novel Low-cost Anaerobic DHS Reactor Collaboration project between Mitoyo-city and Kagawa National College of Technology Development of the living support system using IC card inteface High Strain Rate Superplasticity at Al-Mg Alloy for Automotive Parts Combined with Grain Boundary Sliding and Solute Drag Creep

Development of FBG Sensor

Number of Researches 5, Total Funds 5,765,770Yen

\diamondsuit Cooperative Research with the Private Sector

Study on Next Generation Imaging Technologies Study on Spinning Process Simulation Applications of Small Scale Wastewater Treatment by a Slanted Soil Chamber Method Research on visualization and succession of the cultivation techniques of agricultural Development of transcranial magnetic stimulation Development of the tuning adaptor for percussions A new approach to improve diagnostic ability of x-ray systems Development of input assistant interface for severely disabled people Development of a Waste Treatment Plant for Scrap of Covered Wire Study on viscosity characteristics of drilling mud Development of an Educational Resource of Semiconductor Seminar on local transport plan Development Research on Communication Techniques for Wireless Distribution Syste A Construction Method of Large Scale Concept-base Study of Optical Fiber(FBG) Device Aplications Display data generation and form modification software for LED screen (Linux-based) Support network to cooperate for science education with technical colleges and Naga Development of thermoelectric power generation modules using boron carbide mate Development of LED-VLC Experiment System for Using Under the Disaster Situation F Motivational Homework Management System Development of a novel crossing method for seed-propagated strawberry Trend in CO2 Emission in Takamatsu from 1989 to 2012 Air-conditioning equipment for small animals Number of Researches 28. Total Funds 8.084.000Ye

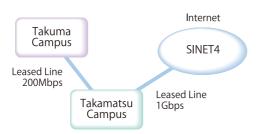
ering students
nd topological quantum many-body states
Display
ng for MRI room where is high noisy sound and magnetic field
fesaving in Disaster Situation
-ray diagnosis
n analysis system and deverop the coaching method based on analytical data
n career education programs for female engineers
tion Pressure feedback for Super-thin Film Generation
s having high toughness
ce water absorption test
untermeasures
ugh career and vocational education

products
ems
aoka University of Technology
erials
illed With Rubble and Debris

ONETWORKING and Computing Service Center

Network Infrastructure

A dedicated line with 200Mbps is connected between the two campuses. The campuses have a dedicated connection with 1Gbps to the scientific information network (SINET).



Network Between Two Campuses

Computing Service

OTakamatsu Campus

Automatically-recoverable computers are installed in the facilities and are used for education on computer literacy and academic research. 50 client computers for the first training room; 50 client computers for the second training room; 20 client computers for the third training room; and 70 client computers for the multimedia room.



Automatically-recoverable computers are installed in two Seminar Rooms, Cyber Lab, Advanced Information Lab, and the Information Media 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.

⊘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.



Takamatsu Campus Second Training Room



Takuma Campus First Seminar Roon



Scanning Electron Microscope



General-purpose FEM Analyzer

Students

Number of Students

	Classification	Admission		E	Inrollment			Total
	Classification	Capacity	lst	2nd	Зrd	4th	5th	Total
	Department of Mechanical Engineering	40	46(1)	39(4)	44(2)[2]	51	22	202(7)[2]
	Department of Electrical and Computer Engineering	40	43(6)	42(6)	46(10)[1]	44(4)[1]	26(5)	201(31)[2]
	Department of Electro-Mechanical Systems Engineering	40	42(3)	41(6)	50(3)[1]	33(3)	37	203(15)[1]
	Department of Civil Engineering	40	42(8)	43(6)	42(8)	32(7)	31(5)	190(34)
, L	Department of Communication Network Engineering	40	42(4)	38(7)	44(7)[1]	26(7)[1]	38(5)	188(30)[2]
	Department of Electronic Systems Engineering	40	43(3)	42(5)	45(4)	43(4)	41(6)	214(22)
mer	Department of Information Engineering	40	42(7)	42(11)	39(10)	44(7)[1]	34(6)[1]	201(41)[2]
ť	Department of Mechanical Engineering	-					11	11
epa	Department of Electrical and Computer Engineering	-				2	4	6
ŏ	Department of Electro-Mechanical Systems Engineering	-				1	6	7
	Department of Civil Engineering	-				2	4	6
	Department of Control Engineering	-					1	1
	Total	280	300(32)	287(45)	310(44)[5]	278(32)[3]	255(27)[1]	1,430(180)[9]

◇Faculty of Advanced Engineering

	Classification	Admission	Enrollm	nent	Totol
	Glassification		1st	2nd	Total
se	Advanced Course in Industrial and Systems Engineering	24	26(2)	27(3)	53(5)
n	Advanced Course in Electronics, Information and Communication Engineering	18	18(2)	20(1)	38(3)
ပိ	Total	42	44(4)	47(4)	91(8)

Clubs and Associations of People Sharing Common Interests

⇔Sports Clubs		⇔Cu
Baseball Club	Tennis Club	Photo
Track & Field Club	Soccer Club	Brass
Table Tennis Club	Softball Tennis Club	Englis
Judo Club	Badminton Club	Light
Kendo Club	Handball Club	Comp
Yacht Club	Karate Club	Painti
Volleyball Club	Trekking Club	Mech
Basketball Club	Shorinji-Kenpo Club	Scienc
Swimming Club		Future
Societies		
Go & Shogi Society	Literature Society	

Drama Society	Painting Society
Calligraphy Society	Photograph Society
Cheerleaders Society	SPOT Society
Microcomputer Society	
Miniature Model Society	

() Female,[] Overseas StudentsAs of May. 1, 2014

ultural Clubs

tography Club s Band Club ish Club t Music Club nputer Club ting Club hanical System Club nce Club ure Car Club Chorus Club Sado & Kado Club Radiotelegraphy Club Rakugo Club Shogi Club Original Comics Club S.J.R.C Club

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(9m²), 2 private rooms(13.5m²), 1 shared room with 2 beds etc(24m²)

North Dormitory 3-story building 29 private rooms(11m), 1 private rooms(15m), 24 shared room with 2 beds etc(15m)

• West Dormitory 24 private rooms(10m²), 8 shared room with 2 beds etc(15m²)

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

Our Students

School Year	lst	2nd	Зrd	4th	5th	Faculty of Advanced Engineering	total
No. of Dorm studs	34 (2)	37(4)	48(7) (4)	28(5)(1)	10	1 (1)	158(19)(5)
() : Number of Female Students within Total. < > Number of Overseas Students within Total							As of May 1, 2014



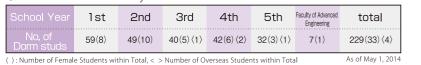
(): Number of Female Students within Total, < > Number of Overseas Students within Total

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

Number of Dormitory Students





Cafeteri

As of Aplil. 1, 2014

After Graduation

Employment or Academic Situation

⊘Takamatsu Campus

	Department	Number of Graduates		Number of Employed	Number of the Other	Job Offered Companies	
ant	Mechanical Engineering	35	10	25	0		
epartme	Electrical and Computer Engineering	35	26	7	2	661	
	Electro-Mechanical Systems Engineering	32	16	16	0		
De	Civil Engineering	31	13	16	2		
	Total	133	65	64	4		
Course	Advanced Course in Industrial and Systems Engineering	23	11	12	0		

⊘Takuma Campus

	Department		Number of the Students who Further their Education			
Ę	TeleCommunications	39	9	29	1	
tme	Electronics	36	13	23	0	
par	Control Engineering	32	8	24	0	429
De	Information Engineering	32	20	12	0	
	Total	139	50	88	1	
Course	Advanced Course in Electronics, Information and Communication Engineering	19	1	17	1	

Campus Map

Takamatsu Campus



- Takuma Campus



Accounting

◇Revenue and Expenditure (2013)

Revenue (a monetary unit: 1,000yen)

Grant for working Expenditure	268,851
Facilities Improvement Expenses	888,384
Self-Revenue	382,723
Tuition and Entrance Examination Fee	11,747
Miscellaneous Revenue	45,957
Industry-University Cooperation Research Revenue and Donation	186,830
Other Subsidy	1,784,492
Total	

- Department of Executive and Department of General Education
- epartment of General Education
- 3 Department of Mechanical Engineering Vachine Shop
- 5 Department of Electrical and Computer Engineering
- Department of Electro-Mechanical Systems Engineering
- Department of Civil Engineering and Lecture Rooms
- Networking and Computing Service Center
- esearch and Development Center for Regional Innovation Gymnasium 1
- ymnasium2
- 🕑 Budo-jyo(Gymnasium for Martial Arts)
- raining Room for Sports
- Veeting Place for the Staff
 - Clubrooms
 - 18 Clubrooms® 19 Wind Tunnel Laboratory
 - Ø Jikyo-kaikan(Welfare Facilities)
 Ø Wakei-kan(Site of a Training Camp)

 - Seiun-ryo(North Dormitory)
 - Seiun-ryo(South Dormitory) Seiun-ryo(West Dormitory)
 - Seiun-ryo(Dining Hall of Dormitory)
 - Swimming Pool
 - Athletic Field
 - 28 Handball Court
 - ennis Court
 - 🕄 Baseball Ground
 - ennis Courts 32 Tennis Court



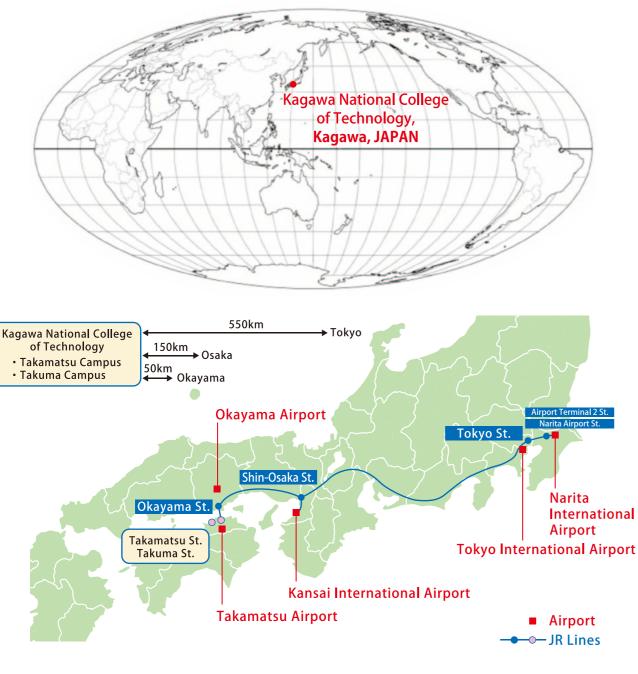
Primary Lecture Halls
Secondary Lecture Halls Library Department of Executive for Dormitory
 Shippo-ryo@(Dormitory) 12 Shippo-rvo③(Dormitorv) Shiun-ryo(Dormitory) East Dormitory
 West Dormitory Boiler Room of Dormitory Warehouse for Dormitory Bathhouse for Dormitory (9) Gymnasium 1(2) Gymnasium 2 ymnasium2 Budo-jyo(Gymnasium for Martial Arts)
 Site of a Training Camp Warehouse for Physical Education Building for the Swimming Pool Bukuri Center(Welfare Facilities)
 Meeting Place for the Staff Shippo Memorial Hall 28 Guard's Room 🙆 Garage 30 Housing for the Staff Swimming Pool Baseball Field 3 Athletic Field 3 Tennis Courts

Expenditure (a monetary unit: 1,000yen)

Educatioal Research Expenses	472,151
General Administrative Expenses	201,680
Facilities Improvement Expenses	888,384
Industry-University Cooperation Research and Donation Project Expenses	34,288
Other Subsidy	186,830
Total	1,783,333

Access from International Airports to Kagawa National College of Technology

Access Map



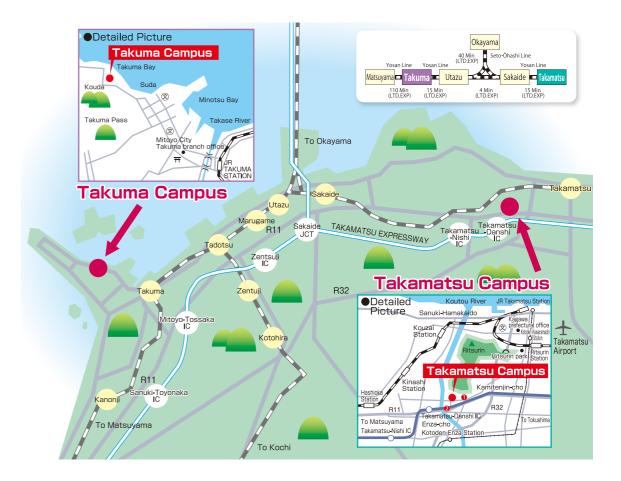
■ Narita International Airport(Tokyo) \Rightarrow (Narita Express) \Rightarrow JR Tokyo Station \Rightarrow (Tokaido Shinkansen) \Rightarrow JR Okayama Station \Rightarrow (Marine Liner) \Rightarrow JR Takamatsu Station

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

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 KNCT is only 20 minutes by car.



Takuma Campus

From JR Takuma Station (Yosan Line)

15 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

20 minutes by car

Kotoden Bus(No.5 bus stop) for Mimaya-Prefecture Swimming Pool \rightarrow 6 minutes walk from Nishi-Tanaka bus stop

Kotoden Bus(No.5 bus stop) for Yusa-Iwasaki, Yusa-Ikenishi or Ikenishi-Konanrakuyu→ 10 minutes walk from Koyama bus stop

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