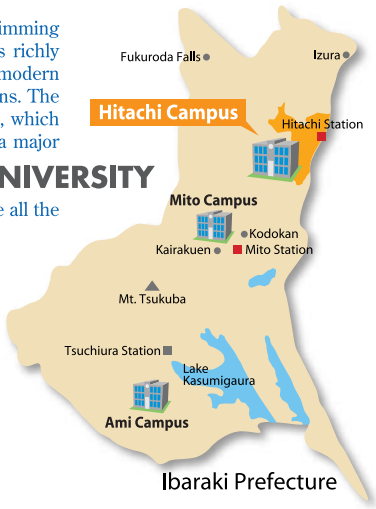


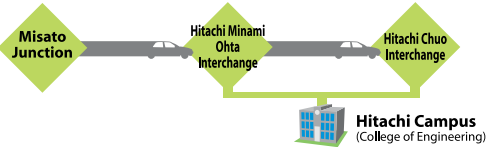
Located in the northern part of Ibaraki Prefecture, Hitachi City is the leading core city in the prefecture. With five beautiful swimming beaches facing the Pacific Ocean to the east and the gentle mountains of the Abukuma Mountain Range to the west, Hitachi is richly endowed with nature and well known as a major cherry blossom-viewing spot. With streets extending from Hitachi Station lined with modern shops, the downtown area and suburbs are home to such prominent companies as Hitachi, Ltd., as well as public research institutions. The vista of the city that includes the campus of Ibaraki University reflects the image of a high-tech city. The city's proximity to Tokyo, which makes a day-trip to Tokyo possible (90 minutes to Ueno Station by Super Hitachi Limited Express on the JR Joban Line), is also a major advantage. In addition to educational and research facilities, including a library, Center for Information Technology, and the College of Engineering, the Hitachi Campus has Venture Business Laboratory and Center for Cooperative R&D, allowing students to enjoy the privilege of feeling closer to research on most advanced technologies. Trees line all the facilities on campus, thus allowing people on campus to enjoy delicately changing seasons.



### Transportation to Campus

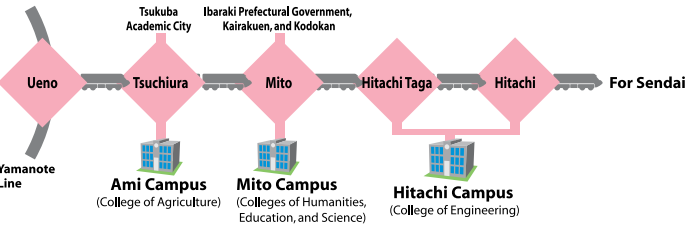
#### ●Joban Expressway

About two hours by JR Highway Bus from Yaesu Gate at Tokyo Station. There are a number of bus stops in the city. Direct bus service to the airports at Narita and Haneda is also available.



#### ●JR Joban Line (Super Hitachi Limited Express)

The Super Hitachi train connects Ibaraki University to downtown Tokyo without a transfer.



### Access Map

#### A From JR Hitachi Station

From JR Hitachi Station (central exit), take a central line bus of the Hitachi Dentetsu Transportation Service bound for "Heiwadai" (bus No. 3) or "Kosakidai" (bus No. 4) and get off at the "Ibadai-mae" bus stop.

#### B From JR Hitachi Taga Station

From JR Hitachi Taga Station, take a central line bus of the Hitachi Dentetsu Transportation Service bound for "Hitachi Station" (bus No. 3 or 4) and get off at the "Ibadai-mae" bus stop.

## Ibaraki University, College of Engineering

4-12-1 Nakanarusawa, Hitachi, Ibaraki 316-8511, Japan

Phone:+81-294-38-5004

<http://www.eng.ibaraki.ac.jp/>

This booklet uses recycled paper. Issued in March 2008



Toward the Future and World

National University Corporation  
Ibaraki University, College of Engineering

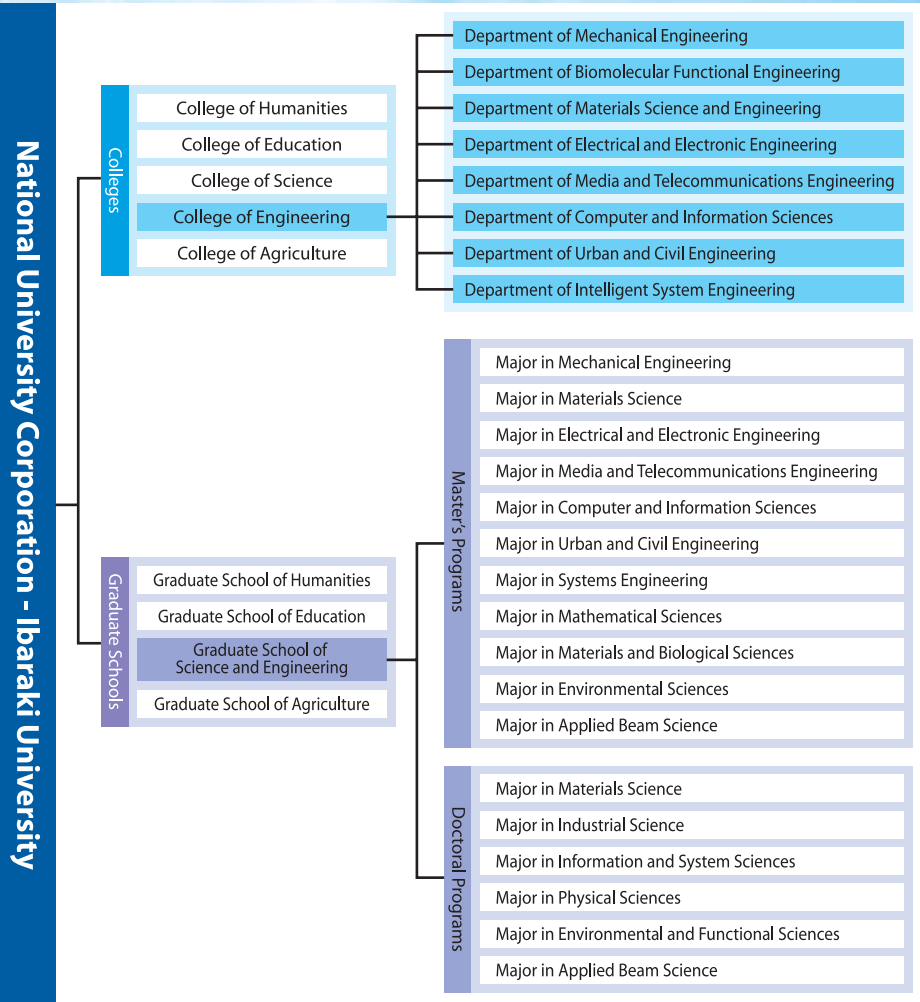


# Implementing Advanced Science and Technology in Harmony with People and the Natural Environment

Since the founding of its predecessor, Taga Technical College, the College of Engineering at Ibaraki University is backed by tradition of nearly 70 years. The history of Japan’s postwar growth and development as a technology-based country also encompasses that of Ibaraki University’s education and research in the field of science and technology. We are proud that, during the past seven decades, the University has sent out to the world many engineers and researchers who have contributed to modern scientific technologies. The College of Engineering, being proud and confident of its glorious history and yet transforming itself in line with the changing demands of the age, has never stopped growing. Given the advances made in science and technology and the rapid dissemination of leading-edge technologies these days, the University must now foster human resources who support next-generation technology and are capable of discerning its future development in depth, as well as creating and disseminating unique scientific technologies that ensure harmony between people and the natural environment. The College of Engineering at Ibaraki University is determined to make ceaseless headway as a basis to create scientific technology that blazes a new path to the future with a global view.

**The College of Engineering at Ibaraki University is looking for students who possess the following traits:**

- Have basic academic and communications skills, and desire to master professional scientific technology
- Have interest in social involvement including international activities, wish to acquire professional knowledge of scientific technology, and enhance logical thinking
- Aspire to become professionals with sophisticated engineering expertise in order to help create a sustainable society



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Dream on the Go ..... 13





## Department of Mechanical Engineering

[www.mech.ibaraki.ac.jp](http://www.mech.ibaraki.ac.jp)



To train students in new manufacturing technologies for developing machines that coexist with humans, such as low-emission engines and biocompatible products, the Department of Mechanical Engineering trains 1st year students in mechanical engineering fundamentals and 2nd and 3rd year students in advanced technical knowledge. Students are also given training to enhance their physical mindedness and application skills to develop them into international engineers thorough Manufacturing Practice II that supply creative experience in manufacturing. 4th year students engage in graduation study in cutting-edge researches such as new technology of numerical fluid analysis, structural analysis technology, highly-efficient engines, next-generation fuels, medical and welfare apparatus, and functional materials. The educational program has been accredited as an Engineering Program Leading to Bachelor's Degree (2006-2010) by the Japan Accreditation Board for Engineering Education (JABEE).



Scene of an exercise involving teamwork

### Main Class Subjects

Dynamics of Machinery, Strength of Materials, Fluid Dynamics, Thermodynamics, Environmental Engineering, Design Engineering of Mechanical Machine, Control Engineering, Mechatronics, New Materials, Biomechanical Engineering, Heat Engine, Manufacturing Practice, Experiments in Mechanical Engineering, Computer Programming Exercises



### Discovering Dreams and Working to make them Reality

Takamasa Kondo  
(From Fukushima Pref.) 2nd year

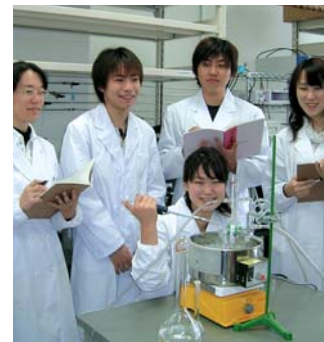
In the Department of Mechanical Engineering we comprehensively learn about research and development, design, production, others aspects related to manufacturing. During the first three years we study a wide range of subjects from general education courses to specialized courses to allow you to discover the field you are interested in. In the Manufacturing Practice I and II during the 2nd year we receive machining technology instruction and skills training and work in teams to produce original machines. This allows us to experience the joy and difficulty of manufacturing and polish the presentation skills we need to communicate our ideas and opinions. In addition, many class subjects make us to raise our awareness of environmental problems. Would you like to discuss with your classmate about your dreams for the future at the Department of Mechanical Engineering?

## Department of Biomolecular Functional Engineering

[www.biochem.ibaraki.ac.jp](http://www.biochem.ibaraki.ac.jp)



The Department of Biomolecular Functional Engineering seeks to nurture researchers and engineers who can explore the complex functions of living organisms at molecular level and apply their expertise to diverse industrial fields. The department offers basic education, such as chemistry, physics, and biology in the 1st and 2nd years. From the 3rd year onwards, students are divided into the applied functional chemistry course and bioelectronic information course, and provided with education programs based on curricula that allow them to acquire more specialized knowledge and expertise about technology. The department is looking for students having a strong will to learn about the various functions of biomolecules and apply them to engineering.



Chemical experiment in the laboratory

### Main Class Subjects

Basic Physical Chemistry, Basic Molecular Biology, Instrument Analysis Chemistry, Polymer Functional Science, Simulation, Protein Engineering, Biomolecular Process, Bioinformatics and Applied Electronics I and II



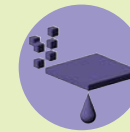
### Infinite Possibilities in a New Department

Hitomi Takeuchi  
(From Iwate Pref.) 3rd year

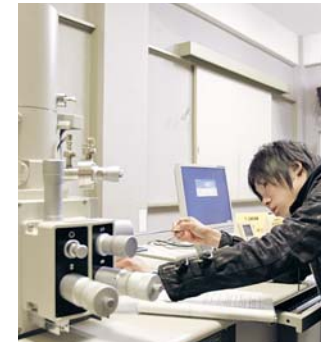
The Department of Biomolecular Functional Engineering is a new department that was established in 2005. We are learning a variety of hot-topic specialty fields, such as biotechnology, based on a fundamental understanding of chemistry, physics, and biology. This is a program in which you can really expand your potential. In addition, since we can take subjects we did not study in high school from the introductory level, people like me who didn't study physics, for example, have the comfort of knowing when we study them here. Now, which a grasp of the fundamentals, I am gaining knowledge and skills through biology and chemistry experiments. We often conduct experiments as a group, which increases everyone's knowledge and strengthens our friendships. Come join us to open up unlimited possibilities.

## Department of Materials Science and Engineering

[www.mse.ibaraki.ac.jp](http://www.mse.ibaraki.ac.jp)



Materials science and engineering embody the scientific approach to creating and researching materials that support our sustainable society. It involves information and communication technology and social infrastructure considering the environment. The reason that computers and cellular phones have become more convenient is due to the significant contribution of materials engineering to the advances made in semiconductors. The materials science and engineering becomes an important key to develop near-future vehicles, such as eco-cars and next generation aircraft. The department offers the students a curriculum that includes environmental studies, nanotechnology, and computational materials science. The graduates of the department are playing important roles as materials technical expert and leaders in "Monotsukuri".



Observing the nano and micro worlds through an electron microscope

### Main Class Subjects

Ecomaterials, Materials Microstructure, Corposcular Beam Applied Structural Analysis, Strength of Materials, Crystal Plasticity, Solid State Physics, Materials Science for Electronic and Information Devices, Computational Materials Science, Ceramic Materials, Nanomaterials Engineering, Exercise in Material Simulation



### For "High-tech Manufacturing" Engineers

Alexander  
(From Indonesia) 3rd year

Materials are the stuff things around us are made from. The Department of Materials Science and Engineering was established in 2005 to give students a deep and enjoyable learning experience with "materials and manufacturing." The course of study includes experiments as well as lectures to allow us to directly apply in experiments the knowledge we obtain from the lectures. As a foreign student, my first concern was, "Will I be able to keep up with the classes? Will I be able to associate well with Japanese friends?" But the instructors have provided friendly guidance and my Japanese friends are kind and help me. This department gives you much knowledge and many skills that we can apply in a wide range of fields in the future, so I invite you to join us in aiming to be "high-tech manufacturing" engineers.

## Department of Electrical and Electronic Engineering

[www.ee.ibaraki.ac.jp](http://www.ee.ibaraki.ac.jp)



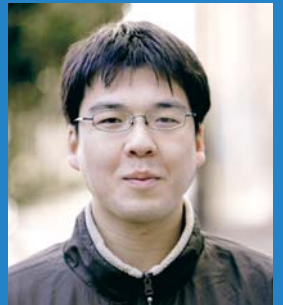
In order for 1st and 2nd students to fully understand the basic subjects of electrical and electronic engineering, the department offers curricula that include connected education, small-class education based on a two-class system, and full-fledged exercises. Juniors and seniors are divided into two courses - electric systems and electronic systems - allowing them to acquire up-to-date specialized knowledge by studying in an intensive and efficient manner in small classes. The graduates of this department will be able to find job at wide-ranging top-ranking corporations, such as electric appliance makers, power companies, auto manufacturers, and in information industries.



Scene of testing in the department

### Main Class Subjects

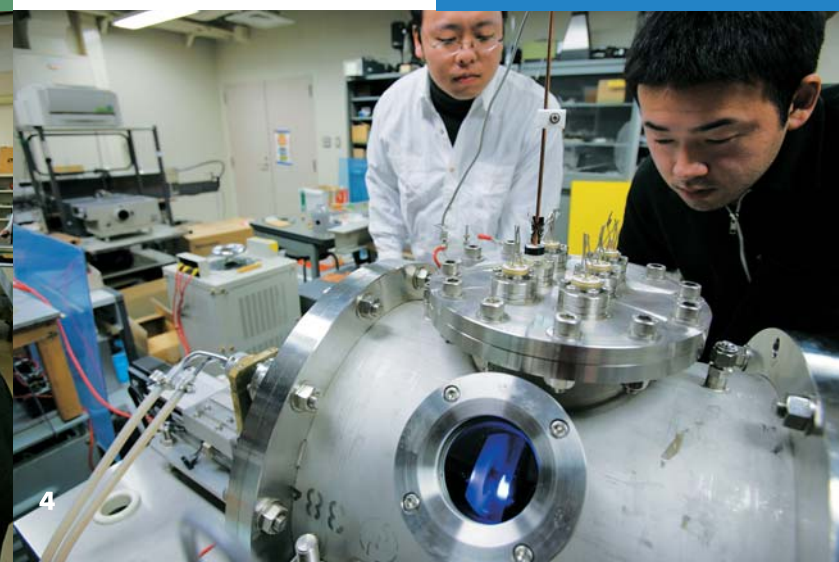
Control Theory, Semiconductor Devices, Telecommunication Engineering, Application of Electromagnetic Waves, Plasma Engineering, Programming, Power Electronics, Optical Information Electronics, Large Scale Integrated Circuit, Electric Machinery, Digital Signal Processing, High Voltage Engineering



### Learning the Essence of Electrical and Electronic Engineering

Shuta Kumagai  
(From Miyagi Pref.) 3rd year

Electrical and electronic engineering technology is used in a wide range of fields from the home appliances close at hand to leading-edge robotics. This makes electrical and electronic engineering one of the important technologies that support society and the Department of Electrical and Electronic Engineering gives students the opportunity to learn about electrical and electronics from the fundamentals to applications. The first two years of study concentrates on acquiring fundamental knowledge. In the third year the program is divided into an Electrical Course and an Electronics Course to allow students to acquire a higher level of specialized knowledge. Come be part of the exciting Department of Electrical and Electronic Engineering and acquire a wide range of knowledge to expand the future possibilities.





## Department of Media and Telecommunications Engineering

[www.dmt.ibaraki.ac.jp](http://www.dmt.ibaraki.ac.jp)



Today live programs like concerts or sport games are played on personal computers or mobile phones. To realize such multimedia communication, both communication and information technologies are necessary. For instance, to play motion pictures on personal computers we need broadband communication lines, storage with large capacity and software. As consumers request multimedia communication with low cost and high quality, the demand for engineers whose strength lies in those technologies has become great. The mission of the Department of Media and Telecommunications Engineering is to help our students to acquire comprehensive knowledge of those technologies and we believe that they will contribute technological innovation in those fields.



Exercise using a computer

### Main Class Subjects

Information Physics, Electromagnetism, Electric Circuit Theory, Semiconductor Electronics, Computer Systems, Programming, Optical Communications, Digital Transmission and Systems, Communications Networks, Laser Engineering, Media Devices, Man-machine Systems Engineering, Biological and Artificial Information Processing



### A Place to Find What You Want to Do

Naohumi Ueta  
(From Ibaraki Pref.) 4th year

The Department of Media and Telecommunications Engineering presents students with the opportunity to engage in a wide range of studies from information and telecommunications technologies to computer technology. As for myself, since a member of my family is visually impaired, I became interested in Braille that is the pattern of dots on beer cans or elevator control panels. This is the field of welfare engineering that is somewhat different from the major curriculum, but that is just the theme that I am currently researching. Our department is a place where you can find your wishes and freely realize them. I think that both those who do not have any visions of what they should be in the future and those who already have rough visions can seize an opportunity to make their dreams come true here. The chances are equally given to us and you may find your own chances in your daily life.

## Department of Computer and Information Sciences

[www.cis.ibaraki.ac.jp](http://www.cis.ibaraki.ac.jp)



Contemporary society would not be conceivable without computers and related networks. Both are now indispensable in wide-ranging fields such as distribution, financing, and manufacturing. The students of the Department of Computer and Information Sciences must study and research broad-ranging fields to become "professional computer and network experts." In our lectures, exercises, experiments, and graduation research projects, which are centered on academic basics, the students acquire not only cutting-edge knowledge but also ways of blazing the cutting edge of ever-evolving information technology. Therefore, people who want to enroll in this department are expected to possess a disposition toward logical thought and expression.



Programming exercise

### Main Class Subjects

Programming, Computer Architecture, OS, Compiler, Algorithms and Data Structures, Program Design, Software Design Practice, CG, Information Networks, Information Security



### First Step toward Information Engineering

Michihito Osanai  
(From Aomori Pref.) 3rd year

In the Department of Computer and Information Sciences we learn fundamental and advanced knowledge and technology about computers and networks through lectures, practicums, and laboratories. The term information engineering probably doesn't register right away, but it covers a wide range of fields including security, databases, computer graphics, and algorithms. During the 4 years until graduation you can find what you want to do and expand your abilities. The many reports and exercise problems required by the Department makes it hard, but doing them greatly increases our abilities. A good thing to do for those interested in computers and those not so much so is to come during the open campus and see what we actually do.

## Department of Urban and Civil Engineering

[www.civil.ibaraki.ac.jp](http://www.civil.ibaraki.ac.jp)



Why don't you help re-create our environment? The Department of Urban and Civil Engineering, focusing on creating and regenerating social and urban environment for a bright future, is committed to fostering civil engineers with a wider sense of balance. It offers diverse subjects encompassing broad-ranging fields of interest, as well as field studies, lectures by experts in the working world, internships allowing students to master the latest issues, knowledge, and technologies. 4th year students will grapple with graduation research, working one-on-one with teachers while getting detailed supervision. Let's build cities and societies of the future together!



Exercise involving the geographic information system

### Main Class Subjects

Structural Engineering, Materials for Construction, Coastal Engineering, Foundation Engineering and Environmental Geotechnics, Transportation Planning, Global Environment Engineering, Urban and Regional Engineering Landscape Engineering, Remote Sensing and Environment Measurement



### Welcome to Urban and Civil Engineering

Ritsu Oosawa  
(From Ibaraki Pref.) 4th year

In the Department of Urban and Civil Engineering you study "civil engineering," which is indispensable to daily life. You study a wide range of subjects from infrastructure, such as roads and structures, to the environment of cities and the entire globe. In the 4th year you concentrate on senior research based on the fundamentals and specialized knowledge acquired through laboratories and exercises, and while doing this I came to realize that civil engineering is the foundation of society. Currently I am analyzing the disaster risk along coastal areas, which is important research for protecting the safety and livelihoods of people. I am enthusiastically doing my senior research with the belief that it will be useful to society in the future.

## Department of Intelligent System Engineering

[www.ise.ibaraki.ac.jp](http://www.ise.ibaraki.ac.jp)



Most of the products around us incorporate the fusion of computers and mechanisms. We nurture technical experts who are familiar with mechatronics, design and manufacturing, computers, and human interface technologies that support intelligent systems, possess the expertise and capabilities to apply these technologies (e.g. robotics engineering), and who are acquainted with various issues and able to proactively deal with them. The department offers program A (where students study during the day) and program B (mainly evening classes) that provides high-level learning opportunities for students with various social backgrounds, such as working students and people.



Scene of students studying in an 'intelligent' classroom

### Main Class Subjects

Introduction to Intelligent Systems, Complex Mechanical Systems, Micro/Nano Systems, Applied Information Systems, Computer Systems, Programming Exercises, Robotics, Control Engineering, Visual Information Processing



### What is knowledge?

Yoshitaka Torihama  
(From Kagoshima Pref.) 4th year

I took the B Course, but I enjoyed doing research daily with the students in the A Course, which gave me the desire to do more research, so I have decided to go to graduate school. For the research I am conducting in my laboratory I am using computer simulation to understand and explain the information processing mechanisms of the brain. I am conducting computer simulations based on experimental facts to build a model of the brain's cells and cortex to make new discoveries in the brain's information processing mechanism and to explain the roles of brain functions. There are days when I don't get the results I'm looking for and I spend all day in front of the computer, but by discussing things or consulting with my instructors, upper classmates, and friends in the same year in school, I am advancing my research one step at a time. The Department of Intelligent System Engineering is divided into the A Course and B Course, but we learn the same things.





By establishing a flexible educational system allowing students to acquire highly sophisticated expertise, resourceful ideas, and deep insight, the College of Engineering supports your day-to-day research and study, as well as future challenges.

# Admission to graduate school



## University entrance



### Examination for Admission in 3rd Year

For people who want to enter university after graduating from a junior college or technical college, or those who wish to transfer to the College of Engineering at Ibaraki University from other universities, examinations for admission in the 3rd year are held.

- Selection by recommendation: May
- General selection: June

### Examinations for Transfer Classes and Courses

For students who want to change departments or courses after admission, we may hold examinations for admission to transfer classes or courses. (October to December)

### Diversified Entrance Examination Choices

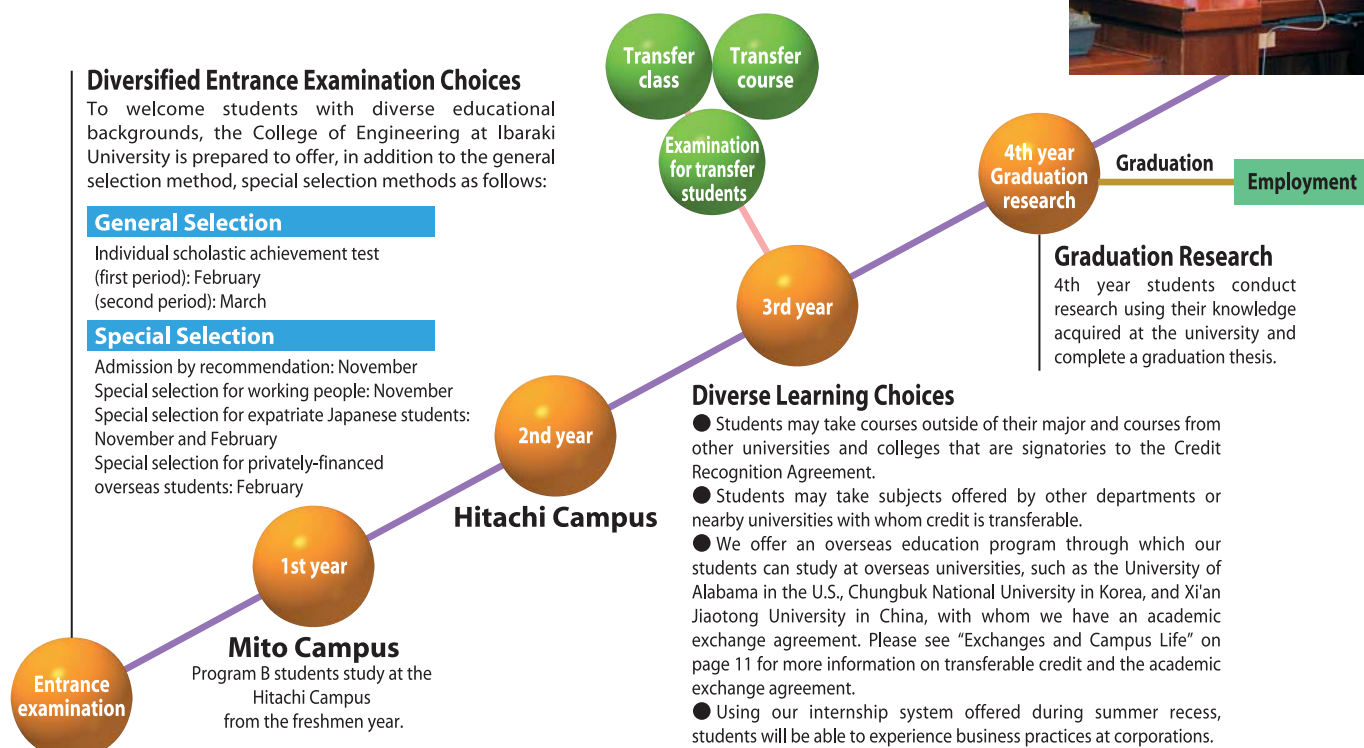
To welcome students with diverse educational backgrounds, the College of Engineering at Ibaraki University is prepared to offer, in addition to the general selection method, special selection methods as follows:

#### General Selection

Individual scholastic achievement test  
(first period): February  
(second period): March

#### Special Selection

Admission by recommendation: November  
Special selection for working people: November  
Special selection for expatriate Japanese students: November and February  
Special selection for privately-financed overseas students: February



### Entrance examination for graduate schools

#### Entrance Examination for Graduate Schools

To acquire advanced and specialized knowledge, more students are entering master's programs after graduating from the university. Our graduate schools provide master's programs that confer a master's degree and doctoral programs for those seeking to acquire higher education and obtain a doctorate.

#### Grade-skipping Entrance Examination for Master's Programs

January in the 3rd year

#### Entrance Examination for Master's Programs

Selection by recommendation: July in the 4th year  
General selection: August in the 4th year  
Special selection for working people: August  
Special selection for overseas students: August

#### Secondary Recruitment for Master's Programs

General selection: January in the 4th year  
Special selection for working people: January  
Special selection for overseas students: January

Graduate school

Completion

Employment

Master's program  
Doctoral program

### Employment

We have five times as many job offers as job seekers and most of our graduates are employed by the companies that they target. For more information, see the pamphlets of each department.

### Degrees, Licenses, and Qualifications

Students can receive bachelor's, master's, and doctor's degrees in engineering satisfying the course requirements for graduation. In addition, taking educational instruction courses will qualify students of all majors to receive the Senior High School Teaching License Level 1 (Engineering). Further, graduates are exempt from being required to take the Professional Engineer Preliminary Examination (Engineering Section). Also, after obtaining practical experience for a set time after graduation will qualify graduates to sit for licensing exams for Safety Manager and other licenses.

### Certification and Qualifications You Can Earn

Common to all departments	Certification for consulting engineer, safety manager, boiler and turbine licensed engineer, and first-class high-school teacher (specialized in industry)
Department of Mechanical Engineering	Auto mechanics
Department of Biomolecular Functional Engineering	Class A hazardous materials officer
Department of Electrical and Electronic Engineering	Licensed electrical engineer
Department of Media and Telecommunications Engineering	CCNA (Cisco Certified Network Associate) and first-class commercial radiotelephone operator
Department of Urban and Civil Engineering	Land surveyor, water technical manager, construction managing engineer, construction machine managing engineer, concrete engineer, chief concrete engineer, concrete maintenance engineer, and licensed architect and builder

\* Some certifications or qualifications may require business experience.





# Hitachi Campus Educational facilities

### N8, N9 Extracurricular Activity and Sports Facilities

Facilities include athletic fields, tennis courts, a gymnasium, martial arts hall, and Japanese archery range for use for physical education classes and club activities.



### S5 Manufacturing Education & Research Support Lab

A wide range of machine tools is available for producing the parts required by students for practical training and research. In addition, as part of the creative manufacturing education, students participate in design contest and robot competitions to give form to their ideas.



### E5 Center for Information Technology

The center provides educational computing environment that includes various servers, specialized workstations, and personal computers, and it also operates the campus information network. The computers in the open study rooms can be used late into the night.



### E4 Library

The approximately 880,000 volumes housed by Ibaraki University can be searched using an online catalog on the University's website. Students can also quickly obtain the publications, documents, and information they need using CD-ROM online searches or through mutual cooperation among university libraries nationwide.



### N5 Center for Cooperative Research & Development

The objective of the Center is contribution to the advancement of the educational and research activities of Ibaraki University and promotion of technical education in local communities by promoting joint R&D with private enterprises and other organizations.



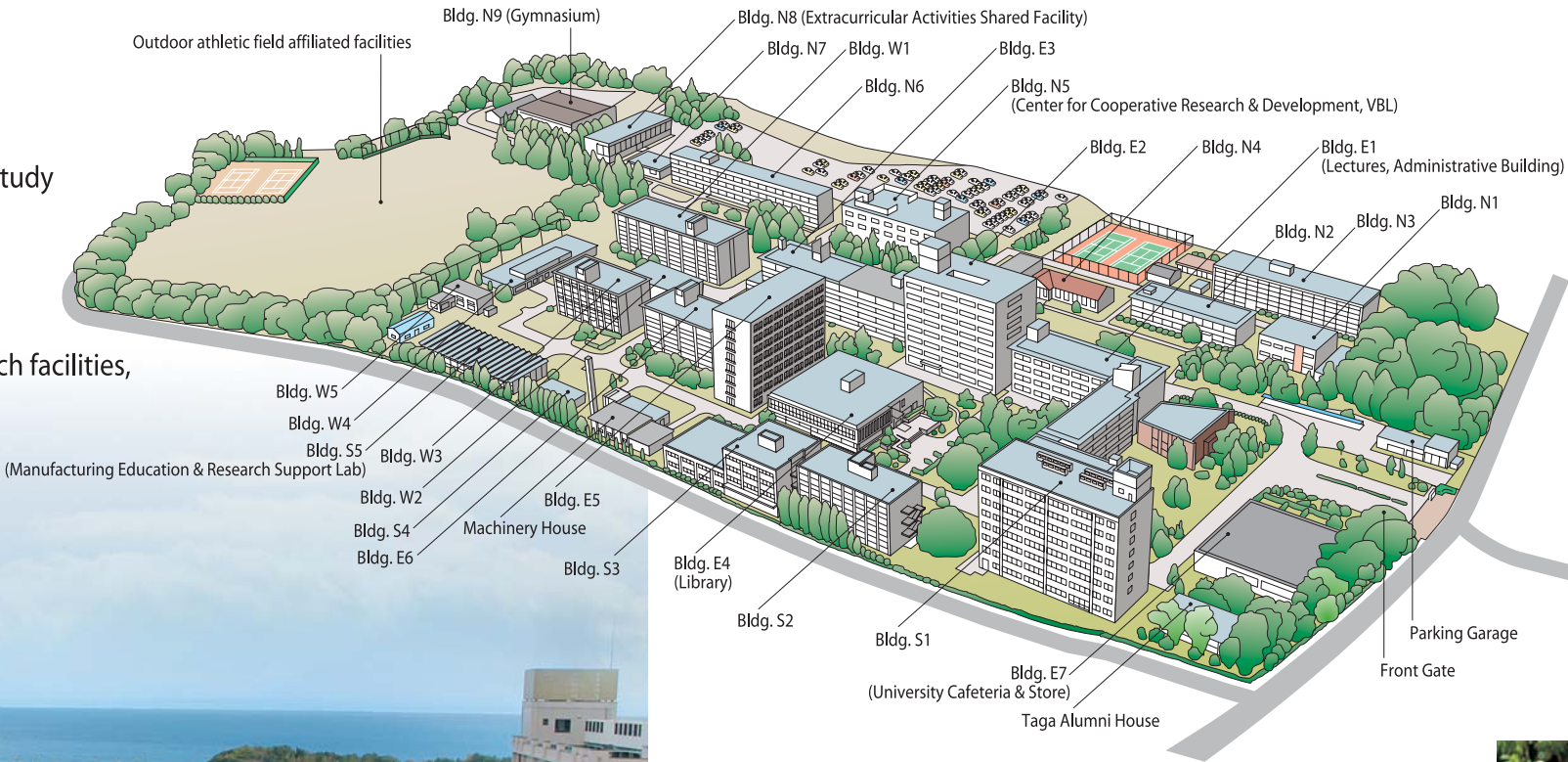
### N5 Venture Business Laboratory (VBL)

This Laboratory promotes the innovative R&D that becomes the seeds for venture businesses while also developing graduate students and young researchers with advanced specialized abilities and the spirit of venture businesspeople.



## Hitachi campus

The Hitachi Campus, where students of the College of Engineering study from their 2nd year, offers diverse sports and welfare facilities such as the University Cooperative Union, in addition to facilities for conducting specialized research and learning about technologies. Along with the nearby beaches, mountains, and world-class high-tech facilities, the Hitachi Campus offers a most stimulating environment.



### Departments

- Department of Mechanical Engineering ····· Bldg. W1, E5, W2, W4, W5
- Department of Biomolecular Functional Engineering ····· Bldg. N2, N6
- Department of Materials Science and Engineering ····· Bldg. W3
- Department of Electrical and Electronic Engineering ····· Bldg. E2, E3, E6
- Department of Media and Telecommunications Engineering ··· Bldg. E3, E5, E6, S1
- Department of Computer and Information Sciences ····· Bldg. S1
- Department of Urban and Civil Engineering ····· Bldg. S2, S3
- Department of Intelligent System Engineering ····· Bldg. E2, E3

### Others

- Center for Information Technology ····· Bldg. E5
- Administration Office ····· Bldg. E1



### E1 Scene of a lecture

Regular lectures are given in this building. It features a classroom that can provide remote online education through a network connected to each campus.



### E7 University Cafeteria & Store (Co-op)

Run by the University Cooperative Union, this welfare facility includes a service shop selling books, stationery, lunches, and tickets, and a cafeteria.



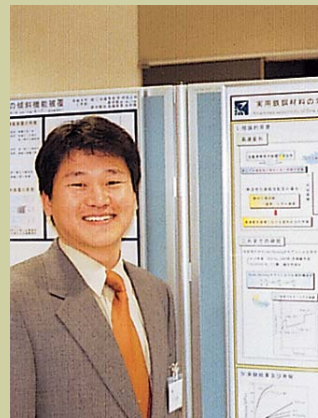


In cooperation with universities worldwide, the College of Engineering promotes educational institutions. While satisfying the increasingly complex requirements to foster engineers and researchers who pursue more prosperous human life.

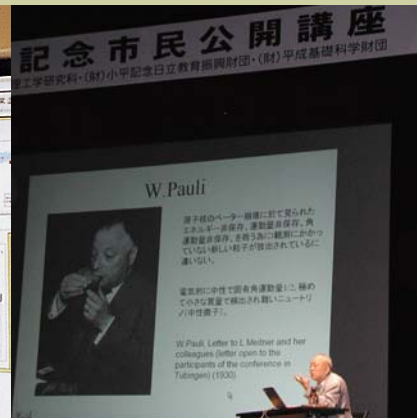
exchanges with local communities and of the modern age, it will continue



Academic exchange at Chungbuk National University in Korea



Ibaraki University Research Results  
Corporatization Promotional Exchange at  
the Hitachi Regional Technical Support Center



Extension lecture



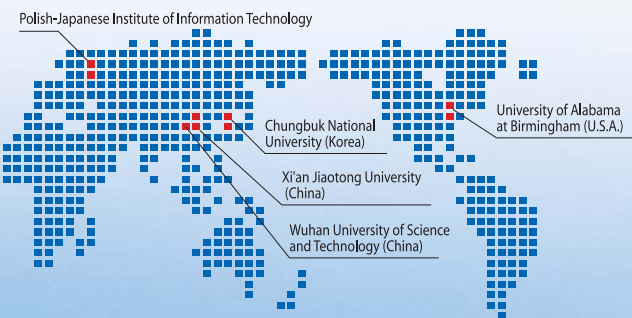
Evening Seminar



Scene at Ibaraki Christian University

## International Exchanges

The Faculty of Engineering enjoys strong ties with the University of Alabama at Birmingham in the U.S., Chungbuk National University in Korea, and Xi'an Jiaotong University in China through an academic exchange agreement under which we accommodate their students and researchers, while dispatching our students to their schools. At the Faculty of Engineering, there are about 100 overseas students from China, Malaysia, Taiwan, and Korea at all times.



## Exchange with the Local Community

Evening seminars invite local researchers as speakers to encourage attendance by residents to promote interaction with the local community. There are also special introductory level lectures offered for working people. The regional feature of having many research organizations and private companies involved in advanced technologies is utilized to conduct many joint research projects. Visiting professors are invited from the Hitachi Research Laboratory of Hitachi Ltd., Japan Atomic Energy Agency, NTT, National Institute of Advanced Industrial Science and Technology, and other organizations. These organizations also provide educational and research opportunities to graduate students through an affiliated graduate school system.



Tokai Research and Development Center,  
Japan Atomic Energy Agency (courtesy JAEA)



Hitachi Research Institute, Hitachi, Ltd.

## Exchange with Educational Institutions

The University and the Ibaraki Christian University, University of Tsukuba, Utsunomiya University, Fukushima University, Ibaraki National College of Technology, and Fukushima National College of Technology have concluded a mutual credit recognition agreement whereby some of the courses offered by the other universities and colleges are mutually recognized for credit by the other universities and colleges in an effort to achieve broad human education. The interaction between humanities and science students in particular has been praised as an innovative experiment. Another activity actively pursued by the College of Engineering to raise the level of education in the local community is holding get-togethers and offering extension classes for high schools and colleges.

New encounters and many experiences await you at the Hitachi Campus.



### Health Management and Counseling Room for Students

Our health-care room provides regular health checkups as well as medical treatment for injuries and sickness. In addition, our full-time staffers provide counseling on students' mental and physical well-being, nutrition, and other matters.

### Welfare Facility

#### University Cooperative Union

This facility is open from 9:00 a.m. through 7:30 p.m. and sells books and daily necessities for your college life. It also has a cafeteria serving hot meals.

#### Dormitory

The Koyo Dormitory is located a 15-minute walk from the College of Engineering and features 168 individual rooms (room fee of ¥4,300 plus utilities) in which students can stay after a check to verify a student's qualification to stay there.

## Study and Living Information

### School Expenses and Scholarship

#### School expenses

Entrance fee: 282,000 yen (141,000 yen for Program B)  
Tuition: 535,800 yen/year (267,900 yen for Program B)

#### Entrance fee and tuition exemption system

There is an entrance fee and tuition exemption system under which students who have difficulties in paying the entrance fees for special reasons and those of good academic standing who find it difficult to pay the tuitions for economic or other special reasons will be exempt, subject to our assessment, from payment of the full or half the entrance fee or tuition.

#### Scholarship system

The Japan Student Services Organization offers a scholarship system available at Ibaraki University for students of outstanding character, good academic standing, and good health who find it difficult to enter the school for economic reasons.

#### First-class Scholarship (interest-free loan)

Monthly loan amount: 45,000 yen for live-at-home students and 51,000 yen for others

#### Scholarship ("Kibo" Plan 21) (interest-bearing loan)

Monthly loan amounts: 30,000 yen, 50,000 yen, 80,000 yen, or 100,000 yen as requested (The loan amounts above are for fiscal 2007.)

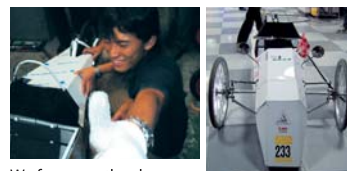


## Econo Power Competition Club

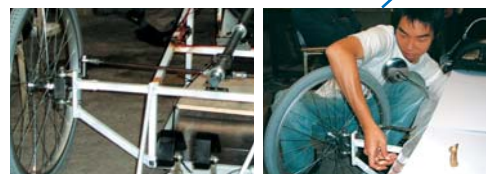
More particular about how far we can run than how fast we can run



We are particular about the frame.  
To save weight, we are particular about materials and take advantage of machine work and welding.



We fuss over the shape.  
We create the desired shape while reducing wind drag.  
We stick to lightweight materials to save weight.



We are particular about the tires.  
We use racing tires.

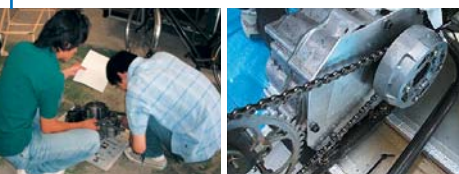
We are obsessed with the front end.  
By using precision parts we ensure the smooth revolution and movement of the front wheels.



We are fussy about the driver.  
We demand superior driving skills, techniques, and calm judgment to deal with trouble arising in the race.



We fuss over the drive train.  
We ensure it has the optimum gear ratio and high rigidity.



We stick to the engine.  
We disassemble and fine-tune the engine, parts and eliminating functions that do not serve our purpose, and reworking parts to save weight.



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## "Kogaku" Festival



For more information, visit <http://www.eng.ibaraki.ac.jp/> Inquiries: Student Affairs Section 2 +81-294-38-5011



## Ibaraki University Racing

The Formula-SAE Club made its debut at the 3rd Student Formula SAE Competition of Japan under the team name of "Ibaraki University Racing."

### What is the Student Formula SAE Competition of Japan?

Hosted by the Society of Automotive Engineers of Japan (JSAE), this is a competitive event in which students design, modify, and manufacture formula-style race cars under the theme of 'monotsukuri.'



### IUTE-01 Vehicle Specifications

Wheelbase/tread (Fr/Rr): 1,685mm/(1,300mm/1,360mm)  
Min. ground clearance : 50mm  
Body weight (dry weight) : 320kg  
Brakes: F&R: Outboard; Caliper : One-side braking with single piston  
Suspension type: F&R : Different length A arm double wishbone  
Tire wheels : Bridgestone/13 inch  
Engine : Honda CBR600RR (Race base model)  
Total displacement : 599 cc  
Transmission : Six-speed return (1-down, 5-up)  
Drive system : MR chain drive  
Shifter : Electric sequential  
Fuel tank capacity : 4.05 liters

