ACCESS 15 minutes from Kisarazu Station by bus

Access to Kisarazu Station

From Tokyo Station
- 55min (JR Limited Express)
- 85min (JR Rapid Train)
- 60min (Highway Bus)

From Haneda Airport
- 40min (Highway Bus)

From Narita International Airport
- 100min (Highway Bus)
- 2hours (JR Train)

From Yokohama Station
- 60min (Highway Bus)
Message from the President

National Institute of Technology, Kisarazu College (Kisarazu KOSEN) is located in Kisarazu City, Chiba Prefecture, where the completion of highway networks to Tokyo and the international airports, Haneda and Narita, provide us a convenient access to domestic and international cities. With a beautiful view of Tokyo Bay from our campus, around 1,100 students majoring in science and engineering in five-years regular course from the age 15 and two-years advanced course, which are equivalent ages to Japanese high school and university.

KOSEN’s primary mission is to foster creative and practical engineers, and vocational education is a feature that integrates general and professional education and practical training based on theoretical background. Especially for the globalization of Japan’s higher-level education, our mission now is to provide the engineers with intellectual, refined and being-broad mind, liberal and engineering-based spirit to face any challenge, and with a wide perspective, which means thinking globally.

Our system is widely admired for its high-level vocational education, and was evaluated both in industrial and academic sectors because of our graduates’ success as engineers, managers and researchers for the past half century.

Our academic program for diploma covers five programs of engineering, namely mechanical engineering, electrical electronic engineering, control engineering, information and computer engineering, and civil engineering, together with three advanced bachelor courses of mechanical and electrical, control and information, and civil and environment. Every year about half of our graduates find industrial employment as engineers, while the other half of them transfer to four-year university from the diploma course, and progress to graduated master’s program from our advanced course.

In Kiarazu KOSEN, we have accepted international students to the third year so far, and recently we have also enhanced short-term student exchanging programs between overseas universities and polytechnics to nurture a diversity environment. In addition to the academic learning, we have also encouraged students to participate in sports and cultural activities as their individuality-building up opportunities. Among over 120 staffs of Kisarazu KOSEN, many educational and technical members are active in their specialty researches to collaborate with industry and other social services. As compared to most Japanese universities, we have relatively satisfactory instruments and facilities in related fields of engineering. Through Kisarazu KOSEN’s activities, we wish to contribute to Japanese society and to have partnership with worldwide organizations.

Kazuo MAENO, Dr.
(Prof. Emeritus of Chiba Univ.)

Characteristics of KOSEN

Regular Course (Associate Degree Program)
- Five years of consistent engineering education from 15 years old.
- Possibility of continuing further study in the two-year advanced course.
- Curriculum emphasizing scientific experiments, workshop training and practical manufacturing skills.
- Small classes, allowing close attention to students. Detailed teaching and assistance by dedicated teachers.
- Student dorming service.
- Inter-college competitions, such as the Robot Contest, Programming Contest, Design Competition and so on.
- International activities, such as teacher and student exchange (470 International students).
- Accreditation by JABEE as a qualified engineering education program.
- A wide variety of career courses are available after graduation, from employment to advancing to higher level education.
- A very good reputation both in industry and in academia.

Advanced Course (Program for Bachelor Degree)
- PBL(Project-Based Learning) on practical engineering tasks.
- A long-term internship (over a month) and COOP (cooperative education).
- Accreditation by JABEE as a qualified engineering education program.

College of Technology System
KOSEN-five-year engineering education from 15 years old. After graduating from KOSEN, most students go to advanced universities or Advanced Courses of Colleges, while the others find employment.

KOSEN has a high reputation both in industry and academia. KOSEN graduates, including those from our advanced course, have been well-received by employers in various fields. KOSEN’s cooperation with other educational institutions and enterprises has also played an important role in promoting the development of its students.

KOSEN has a number of educational programs, including the Regular Course, Advanced Course, and International Student Exchange Program. The Regular Course is a five-year program that provides a comprehensive education in engineering, while the Advanced Course offers an opportunity for students to specialize in a particular field. The International Student Exchange Program allows students to study at other institutions around the world.

KOSEN has a diverse student body, with students from a wide range of backgrounds and nationalities. The college has a number of organizations and clubs, including sports teams and cultural groups, which provide students with a range of opportunities to develop their skills and interests.

In conclusion, KOSEN is a highly respected institution that offers a high-quality education in engineering. Its strong reputation and diverse programs make it an excellent choice for students interested in pursuing a career in this field.
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Characteristics of KOSEN

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In addition to the academic learning, we have also encouraged students to participate in sports and cultural activities as their individuality building up opportunities.

As of April 1, 2015

Incomes & Expenditures

Program accreditation by JABEE
JABEE (Japan Accreditation Board for Engineering Education) Since 2005, JABEE has been a member of the Washington Accord, an agreement which provides a mechanism for mutual recognition between signatory bodies of engineering education accreditation processes. KOSEN have been eager to get JABEE accreditation in order to enger an internationally recognized quality assurance. Accredited programs of KOSEN correspond to the level of undergraduate engineering program at a university.

10 interdisciplinary studies of 47 KOSEN (from a total of 51 schools) have obtained JABEE accreditation.
**Department of Mechanical Engineering**

The application field of mechanical engineering has spread not only to conventional factory production but also to various fields, such as information technology, automatic control and electronics dependent on the technical innovation of an advanced information society.

In our mechanical engineering department, the students mainly learn the foundations of designing and manufacturing mechanical hardware. In addition, the curriculum of this department introduces the application of computers and electronics. In this way, our department aims to train the students to become creative engineers in more fields than ever before, corresponding to the social demands of new technological development.

**Subjects**
- Machine Design, Kinematics of Machinery, Thermodynamics, Measurement and Instrumentation, Strength of Material, Computational Fluid Dynamics, etc.

---

**Department of Electrical and Electronic Engineering**

This department offers a wide variety of subjects, including electrical and electronic engineering, control, communications, materials, computers, measurements and energy engineering. This department offers a wide range of subjects, along with optional subjects. The curriculum is carefully structured to ensure that all students acquire the necessary skills to use up-to-date techniques.

**Subjects**
- Electric Circuits, Electronic Circuits, Electromagnetics, Semiconductor Engineering, High Voltage and High Current Engineering, Power Electronics, etc.

---

**Department of Control Engineering**

This department aims to develop a comprehensive knowledge and skills to construct control systems that support the industrialized world.

Because of the interdisciplinary nature of control technology, students study various categories of subjects, such as electric and electronic engineering, mechanical engineering and computer engineering, from fundamentals to applied. The research themes of the faculty cover many fields including plastic forming, intelligent robots, electronic devices, communication engineering, instrumentation and measurement, vibration control, embedded systems and so on.

**Subjects**
- Control Engineering, Electronic Circuits, Mechanics of Materials, Computer Technology, Electronics, Actuator Technology, Robotics, etc.

---

**Department of Information and Computer Engineering**

This department provides education in both computer hardware and software, including artificial intelligence, systematic programming, design and analysis of data structures, computer architecture and information communication networks.

The curriculum focuses on practice, experiments and research to train future engineers to be able to solve problems creatively and independently.

**Subjects**
- Programming Language, Intelligent Systems, Signal Processing, Operating Systems, Computer Interfaces, Programming Training, etc.

---

**Department of Civil Engineering**

The curriculum of this department covers issues concerning urbanization and environmental problems, as well as traditional civil engineering.

Civil engineering contributes to industrial development, for example in the construction of bridges, roads, and parks, and to the enrichment of public facilities, which are the basis of civil life.

As the field develops, however, more attention is now focused on urban and environmental problems.

In response to this demand, the department aims to train engineers who seriously consider the safety and maintenance of the landscape and environment in constructing public facilities.

**Subjects**
- Surveying, Structural Mechanics, Hydraulics, Soil Mechanics, Urban Design, Remote Sensing, Bridge Structure, etc.

---

**Number of Students**

As of April 1, 2015

<table>
<thead>
<tr>
<th>Dept. of</th>
<th>Classification</th>
<th>Capacity</th>
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**Graduates from the Regular Course**

As of April 1, 2015

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<td>88</td>
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</table>
Regular Course (Associate Degree Program)

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Number of Students

As of April 1, 2015

<table>
<thead>
<tr>
<th>Dept. of</th>
<th>Classification</th>
<th>Capacity</th>
<th>Statutory Total</th>
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<th>2nd</th>
<th>3rd</th>
<th>4th</th>
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Graduates from the Regular Course

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<td>Information and Computer Eng.</td>
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<tr>
<td>Total</td>
<td>173</td>
<td>88</td>
<td>84</td>
<td>1</td>
<td>15%</td>
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</table>

Others 1%
Advanced Course (Program for Bachelor Degree)

Established in 2001, the Advanced Course of Kisarazu Kosen provides two-year higher level technology education, based on the five-year Regular Course education. The bachelor degree is obtained by earning the required credits at the Advanced Course and passing the evaluation of the learning outcomes by the National Institution for Academic Degrees and University Evaluation. This also means the graduates are qualified to go on to graduate school. This course has three fields: Mechanical and Electrical Course, Control and Information Course, and Civil and Environment Course.

Mechanical and Electrical Course

This advanced course aims at cultivating creative and practical engineers with skills from both the mechanical and electrical fields, who thereby have the flexibility to research and develop new technologies.

Subjects
Production Engineering, Tribology, Systems Control, Microwave Circuit Engineering, Energy Engineering, etc.

Control and Information Course

This advanced course aims at providing a wide variety of subjects including decision support, software, communication, and mechatronic and control technologies, on the basis of information processing engineering, and aims at training students to be core and leading engineers capable of dealing with creative and practical control systems.

Subjects
Learning Control Engineering, Control System Engineering, Semiconductor Devices, Human Interface, Simulation and Modeling, etc.

Civil and Environment Course

This advanced course aims at training creative and imaginative engineers who can carry out research and development (R&D) and can flexibly cope with problems related to the environment and urbanization, which have become more serious and widely spread.

Subjects
Environmental Biotechnology, Applied Structural Engineering, Preservation Engineering, Applied Geotechnical Engineering, Applied Material Engineering, etc.

Number of Students

<table>
<thead>
<tr>
<th>Course</th>
<th>Capacity</th>
<th>Statutory Total</th>
<th>1st</th>
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Graduates from the Advanced Course

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<tr>
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As of April 1, 2015
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**Advanced Course (Program for Bachelor Degree)**

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<table>
<thead>
<tr>
<th>Course Classification</th>
<th>Capacity</th>
<th>Statutory Total</th>
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As of April 1, 2015

**Graduates from the Advanced Course**

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</table>

As of April 1, 2015

**Facilities & Equipment**

- Administration Building
- General Research Building
- Science Laboratory
- Education Building
- Lecture Building A
- Lecture Building B
- Lecture Building C
- Library & Information Technology Center
- Research Building No.1
- Research Building No.2
- Research Building No.3
- Cooperative Technology Center
- Manufacturing Building/Practice Workshop
- Students' Hall
- Boys' Dormitory (Yuho-Ryo)
- Girls' Dormitory (Nanohana-Ryo)
- Gatekeeper house
- Athletics Grounds
- Baseball Field
- Multi-Purpose Square
- Library & Information Technology Center
- Manufacturing Building
- Lecture Building A
- Lecture Building B
- Lecture Building C
- Library & Information Technology Center
- Cooperative Technology Center
- Students' Hall
- Boys' Dormitory (Yuho-Ryo)
- Girls' Dormitory (Nanohana-Ryo)
- Gatekeeper house
- Gymnasium No.1
- Gymnasium No.2
- Martial Arts Gymnasium
- Swimming Pool
- Extra-Curricular Activity Facility
Our research group develops and applies wastewater treatment technology for the protection of the earth's hydrosphere. Currently, we mainly focus on the development of an innovative wastewater treatment system, namely DHS (down-flow hanging sponge) as a core technology. The concept of this technology is based on the well-known biological trickling filter, except the polyurethane sponge (absorbent material), which was originally designed and tested by collaborative research teams. The full-scale DHS system, capable of treating wastewater for a population of 28,000, will be installed at the sewage treatment plant in Agra, India. The demonstration tests will be conducted by the international joint research consortium between India and Japan. Therefore, design and O&M guidelines will be prepared for the dissemination of government-funded technology throughout India and the world. In addition, the establishment of an international R&D center for innovative sewage treatment technologies for agricultural reuse in arid regions is also promoted in collaboration with Egypt-Japan University of Science and Technology (EIJUST). We will continue our research on the proposed DHS technology to improve the freshwater environment.

The objective of the Education and Research Support Center is to support educational and research activities in the college and to improve the proficiency level of each staff member. The center supports the following activities:
1. Students' experiments and practices
2. Graduate research and advanced research
3. The preparation of educational materials
4. Teachers’ educational and research activities
5. School events
6. Open classes, contributions to local industries, and cooperative research
7. The maintenance of machines and equipment in laboratories

Education and Research Support Center Staff

Explaination in Open Class by Mr. YUJI TATEISHI, Who is Technical Head in this Center

Dr. Achyut Sapkota

Dr. Tsutomu OKUBO

With students conducting electronic circuits experiments

Third year Admission Test
For privately funded international students

This new admission system is intended to recruit privately funded students eager to study at Kosen based on the standard examination, in addition to international students publicly funded by the Japanese government and a foreign government.

Applicants who have completed an academic curriculum equivalent to upper secondary school enter the third year of Kosen (equivalent to the third year of high school) at age 18 in Japan’ school system.

For more details, please refer to this website: http://www.kosen-k.go.jp/english/index.html

We are making near robots each year by team

Satoshi HATORI

Hi everyone, my name is Chung Ming Yao. I come from a unique country, Malaysia. I’m very glad to have been given this golden opportunity to introduce myself. First of all, I’m a 3rd year mechanical engineering student in Kisarazu Kosen. I’ve been very interested in building with dominos and creating some amazing new things since I was a kid. I want to explore more in the mechanical engineering field and become a prodigious engineer in the future.

On the personal side, I love to play basketball and soccer. I’m also a member of the Kosen Robotics Team. For those interested, check it out.

Chung Ming Yao

Hello everyone. My name is Satoshi Hatori. I am a 5th year student at the National Institute of Technology, Kisarazu College. Let me tell you about my school life.

When I was a child, I liked making things. At that time, I watched “KOSEN ROBOCON” on television. “KOSEN ROBOCON” is a robot competition where many robots made by KOSEN’s students from all over the country compete. I also wanted to make cool robots! So, I decided to go to KOSEN.

After admission, I joined a ROBOCON team immediately. At first, I didn’t have any skill and knowledge. However, senior students politely taught me many things. Finally, I became able to design cool robots. Furthermore, making robots with my teammates was a good experience for me. Making a robot on a team that is composed of several members from different fields is difficult. However, in doing so, we can make excellent robots packed with various ideas.

I learned a lot of things like the above mentioned through the KOSEN ROBOCON. If you are interested in the KOSEN ROBOCON, please check it out.

Satoshi HATORI

Hello, everyone. My name is Shimizu Lee Yumi. I entered Kisarazu National College of Technology in April of this year as a foreign student from Malaysia. I’m currently studying as a 3rd year student, majoring in civil engineering.

As a foreign student, I was really lucky that things started off pretty smooth for me. With helpful advice and guidance from my lecturers, seniors and friends, I didn’t take long to get used to and soon learn to enjoy my new dorm and college life. As for studies, besides Mathematics and Physics, there are several other major subjects that could turn out to be quite challenging for not only the foreign students but also the local Japanese students. Japanese lessons are provided for foreign students throughout their time spent studying. What makes this college different from the rest is that German lessons are taught as a compulsory subject to all students (elective subject for foreign students).

Just like the local high schools, this college also offers a wide range of extra-curricular activities. I’m currently a member of the dance team. I will continue my hard work and hopefully graduate happily from this college in a few years time.

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Shimizu Lee Yumi
I received my bachelor’s degree in electrical engineering from Tribhuvan University, Nepal in 2001 and my masters and doctoral degree in information systems engineering from Osaka Sangyo University, Japan in 2006 and 2009 respectively. I worked as a postdoctoral research associate at Shanghai University, China from 2009 to 2010, and at Nihon University, Japan from 2010 to 2011. I was in Chiba University, Japan as a JSPS postdoctoral fellow and Assistant Professor from 2011 to 2015 before joining the National Institute of Technology, Kisarazu College in April, 2015. My research area is biological and medical informatics. Currently, I am working on thrombosis (blood clotting) management in patients with cardiovascular diseases, particularly for those who use extracorporeal circulation devices. Thrombus formation is one of the major concerns in extracorporeal circulation systems, such as the hemodialyzer, or the heart-lung machine.

To reduce the risk of thrombus while using these devices, medical personnel routinely administer large amounts of anticoagulant drugs. However, the excessive use of anticoagulants triggers various side effects including excessive bleeding during injury. My research is focused on the development of a point-of-care device to monitor the risk of thrombosis in real time. I am collaborating with various academic research institutes in Japan and abroad.

Our research group develops and applies wastewater treatment technology for the protection of the earth hydrosphere. Currently, we mainly focus on the development of an innovative wastewater treatment system, namely DHS (down-Dow hanging sponge) as a core technology. The concept of this technology is based on the well-known biological trickling filter, except the polyurethane sponge packing material, which was originally designed and tested by collaborative research teams. The full-scale DHS system, capable of treating wastewater for a population of 28,000, will be installed at the sewage treatment plant in Agra, India. The demonstration tests will be conducted by the international joint research consortium between India and Japan. Therefore, design and O&M guidelines will be prepared for the dissemination of government-funded technology throughout India and the world. In addition, the establishment of an international R&D center for innovative sewage treatment technologies for agricultural reuse in arid regions is also promoted in collaboration with Egypt-Japan University of Science and Technology (EIJUST). We will continue our research on the proposed DHS technology to improve the freshwater environment.

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International Exchanges

There are two types of international students in Kisarazu Kosen.
1. Third grade enrollment students
   - International students enter Kosen in their third year after they finish preparatory school.
2. Short-term international students based on agreement.

International Exchange Programs

PASCH
- In 2008, Kisarazu Kosen became the first school in Japan to be authorized as a PASCH (partner school) by the German government. The PASCH Program is an international exchange program sponsored by the German government for schools that offer German language classes.

German Exchange Program
- For the biggest event of the PASCH Program, Kisarazu Kosen sends students to Germany for three weeks of German language lessons during summer vacation. The German government bears most of the expenses.

International German Youth Camps
- This program aims for students from Asian countries to be immersed in the German language under PASCH. The German government bears most of the expenses.

Exchanges with the National United University in Taiwan
- We have implemented 3-week internship exchanges.

Exchanges with the Nanyang Polytechnic in Singapore
- We have implemented three-month student acceptance and one-month student dispatch.

Exchanges with the Sekolah Sultan Alam Shah in Malaysia
- We have implemented 1-week exchanges.

Exchanges with the Heinrich-Hertz-Berufskolleg in Germany
- We have implemented 1-2-week exchanges.

Scholarships
- Privately financed international students can apply for scholarships provided by the Japan Student Services Organization (JASSO).

List of Partnership Agreements

We are proactively pursuing cooperation with domestic and foreign universities and academic organizations, and non-academic organizations such as self-governing bodies and the like, with the aim of regional development and nurturing personnel for an international market.

<table>
<thead>
<tr>
<th>Domestic Partner</th>
<th>Agreement date (renewal date)</th>
<th>Agreement contents</th>
</tr>
</thead>
<tbody>
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<td>Waseda University Graduate School of Information, Production and Systems</td>
<td>May 26th, 2015</td>
<td>Memorandum regarding admission by recommendation, concluded in 2005</td>
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<td>Yamagata University, Faculty of Engineering</td>
<td>March 4th, 2009</td>
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</tr>
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<td>Chiba University</td>
<td>February 16th, 2010</td>
<td>Comprehensive agreement regarding education, research, and contributions to society</td>
</tr>
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</tr>
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<td>February 6th, 2015</td>
<td>Agreement regarding comprehensive cooperation</td>
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<tr>
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<td>Agreement regarding comprehensive cooperation</td>
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<tr>
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Student Dormitory

Kisarazu Kosen provides a dormitory room for students who cannot commute to school because of long distance. International students are also welcome at the dormitory. Each international student is assigned a tutor who is in the same class and lives at the dormitory. Teachers or staff will stay throughout the night in the dormitory and look after the students. Further, the dormitory for female students has special security features such as an electronic door gate, a security camera and an alarm. Dormitories have catering facilities which provide meals for both domestic and international students. They are not, however, designed for Islamic students or vegetarians. Therefore, each dormitory has made communal kitchen-dining facilities available for these international students. During school vacation, international students are able to stay in the dormitory and use these facilities.

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We have implemented 1-2-week exchanges.

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Number of Students who participated in Exchange Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Year 2010</th>
<th>Year 2011</th>
<th>Year 2012</th>
<th>Year 2013</th>
<th>Year 2014</th>
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<td>Taiwan Exchange Program</td>
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<td>International conference / International symposium</td>
<td>6</td>
<td>6</td>
<td>15</td>
<td>11</td>
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Number of Foreign Students

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<td>1</td>
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<td>Ethiopia</td>
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<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
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<tr>
<td>Cambodia</td>
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<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
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<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Taiwan</td>
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<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td>3</td>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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**ACCESS** 15 minutes from Kisarazu Station by bus

### Access to Kisarazu Station

| From Tokyo Station | 55min (JR Limited Express)  
85min (JR Rapid Train)  
60min (Highway Bus) |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>From Haneda Airport</td>
<td>40min (Highway Bus)</td>
</tr>
</tbody>
</table>
| From Narita International Airport | 100min (Highway Bus)  
2hours (JR Train) |
| From Yokohama Station | 60min (Highway Bus) |

### Map of Departments

![Map of Departments](image)

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**National Institute of Technology Kisarazu College**

Address: Kiyomida-Higashi 2-11-1, Kisarazu, Chiba, 292-0041 Japan  
http://www.kisarazu.ac.jp/  
Issued on January, 2016