National Institute of Technology, Hachinohe College

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5-year Regular Course Industrial Systems Engineering

Mechanical System Design Course Electrical & Computer Engineering Course Material & Biological Engineering Course Civil Engineering & Architectural Design Course

Additional 2-year Advanced Engineering Course

Capacity			
Industrial Systems Engineering	1st 2nd 3rd 4th 5th	160 160 160 160 160	Total 800
Advanced Engineering Course	1 s t 2nd	28 28	Total 56

The Philosophy and Policy of Education



After either 5 or 7 years of continuous education, students will acquire advanced and practical skills.

Due to the 5 year continuous education, students are able to study from a deeper, broader base. Not only do students receive theoretical knowledge, but through experiments and training they develop an advanced level of skills. Without having to worry about college entrance exams, students are able to focus on their own personal goals, and continue their studies with intensity. If they continue on to the Advanced Engineering Course, they will have 7 years of continuous education.

Title of Associate and Bachelor

Upon graduation of the 5 year course, students will acquire an Associate's degree. In addition, students who graduate from the Advanced Engineering Course will be awarded a Bachelor's degree after approval from the National Institution for Academic Degrees and University Evaluation.

There are many choices after graduation.

Employment is of course an option, but due to our flexibility it is also possible to continue on to the Advanced Engineering Course or transfer to a 3 year university.

Meeting the needs of the current generation. There is a course to make your dreams come true!

Electrical & Computer Engineering Course

Mechanical System Design Course

Course

Introduction



The Mechanical System Design Course is about learning how to create, design, and make various products. Our course is made up of two courses: the Mechanical and Energy System Course (Material, Fluid and Thermo) and the Intelligence Mechanical System Course (Robot, Measurement and Control). Students will learn how to design, make, and maintain as mechanical engineers.



The Electrical & Computer Engineering course is made up of two courses: the Electrical and Electronic System Course and the Intelligence Information System Course. Students will study the basics until their third year; once they are fourth year students they will be divided into separate courses in small classes, packed with superior lessons. From now on, both the soft (program) and hard (electronic circuits) will be used to open the wide road in the field of electrical and electronic information industry. Material & Biological Engineering Course



The Course curriculum provides practical knowledge in chemistry based on atoms and molecules. Our task is to instruct students to freely design substances with the desired functions, and to develop production systems in terms of chemistry, metals, and biology. The department curriculum appends metal-based lectures and inorganic chemistry corresponding to metal process companies.

Civil Engineering & Architectural Design Course



In order to make it possible to realize continued advancement for society and the environment in regards to safety and regrowth, it is necessary to study environmental engineering, as well as architecture combined with social infrastructure. Our curriculum will breed practical engineers with strengths in manufacturing, while keeping a global view considering the safety and peace of mind of the earth and the people on it.

Advanced Engineering Course

The Advanced Engineering Course is an additional 2 year course of highly specialized education, while continuing to draw off the previous 5 years of education. Combining a rich sense of humanity and creativity along with research and development ability, in order to create practical engineers who will lead the field in manufacturing and system development.

Mechanical System Design course





Material & Biological Engineering Course





Civil Engineering & Architectural **Design Course**



Center for Developments Hachinohe Technology Facility

Facilities, Equipment, Surroundings

and Manufacturing

We are very proud of our one hundred square meter campus, where there are many facilities that assist and provide students with a relaxing atmosphere in which to study.



Dormitory Life

Our well-equipped dormitory helps students build their social life as well as their independence.

	1st	2nd	3rd	4th	5th	Total
capacity	150	150	60	60	60	480



International **Exchange**

To help produce global engineers, we incorporate project based learning (PBL) and exchange with other cultures in order to further increase our students global competency.

Hong Kong	Hong Kong Institute of Vocational Education
Malaysia	International Education College
Singapore	Temasek Polytechnic
	Singapore Polytechnic
Thailand	King Mongkut's Institute of Technology Ladkrabang
Vietnam	Central Region College of Technology, Economics and Water Resources
Finland	Turku University of Applied Sciences
France	IUT A de Lille, IUT de Béthune
	IUT de Valenciennes, IUT de Lens
	IUT du Littoral Côte d'Opale

IUT d'Aix-Marseille U.S.A **Edgren High School**

Clubs & Extracurricular Activities

There are many strong clubs, including Robot Contest and Programming Contest clubs, which participate in National Technical College Meets. The quality time spent with upperclassmen and friends after classes will help breed cooperativeness and drive.



There are many Nationwide contests in which we are able to use as PR for industrial-university cooperation.

ROBOCON Robot Contest







PROCON **Programming Contest**





English Presentation Contest

Annual Events based on Quarter S

Matriculation Ceremony Opening Ceremony of Academic Year Orientation for new students Parent/Guardian-Teacher Meeting (5th year students)

Structured Group Encounter (1st year students)
Dormitory Festival
Final Examinations

All Japan High School Athletic Meet
College-Wide Field Day

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Autumn Quarter (Active Inquiry Period)

Winter Qui

Tohoku Area National College Athletic Meet
Class Observation (Peer observation among teachers)
Parent/Guardian-Teacher Meeting (All students)
Final Examinations

Active Inquiry Period
Open Campus (for Jr. High Students)
All Japan National College Athletic Meet
Summer Vacation

Interim Presentation of Self-directed Inquiry (All students)

Parent/Guardian-Teacher meeting (1st to 3rd year students)
College Festival
Tohoku Area National College Athletic Meet (Rugby Football)
National College Programming Contest
College Category of NHK Robot Contest (Tohoku Area Championship)

College-Wide Ball Game Day
Study Tour (4th year students)
National College Design Competition
Parent/Guardian-Teacher Meeting (4th year students)
College Category of NHK Robot Contest (National Championship)

Recreational Activities (2nd year students)
Winter Vacation

Class Observation (Parents/Guardians)
National College English Presentation Contest
Ski Lesson (3rd year students)
Presentation of Graduation Theses (Advanced Engineering Course)
Final Examinations

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Presentation of Graduation Studies (5th year students)
Closing Ceremony of Academic Year (1st to 4th year students)

Graduation Ceremony





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