GUIDE FOR INTERNATIONAL TRANSFER STUDENTS

- 外国人留学生向け高専案内 -

KOSEN

NATIONAL INSTITUTE OF TECHNOLOGY

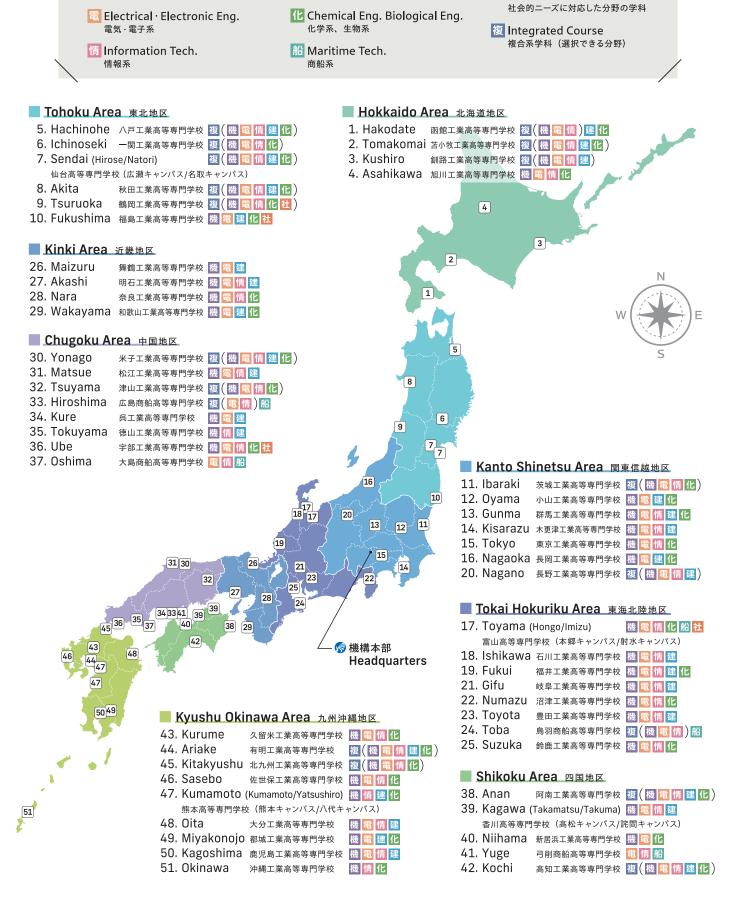




Map of Departments - 学科配置 -

機 Mechanical Eng. Material Eng.

機械系、材料系



建 Civil Eng. Architectural Eng.

建設系、建築系

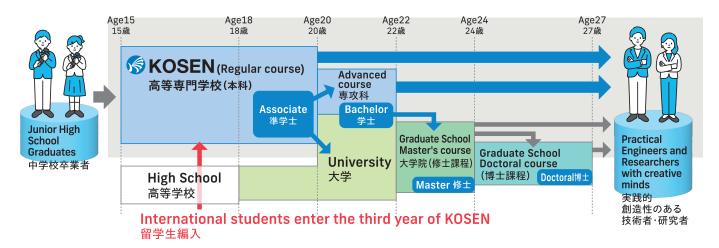
社 Departments Matching

with Social Demands

KOSEN Education System - 高専教育制度 -

KOSEN accepts junior high school graduates and provides them an integrated five-year engineering education. International students enter the third year of KOSEN.

高専では、中学校の卒業者を受け入れ、5年間一貫の技術者教育を行っています。留学生は高専3年次に編入学します。



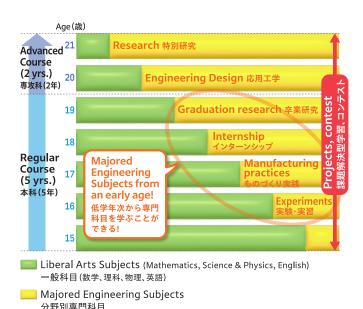
Strengths of KOSEN's Balanced Educational Structure - 丁寧に積み上げる専門性 -

The KOSEN curriculum is designed with a well-balanced educational structure to provide a solid foundation in the fundamental major subjects for students in the early years and build a fundamental engineering background as students advance through the grades.

KOSEN education organically combines the three key elements of lectures, experiments, and practice enhancing students' skills and outcomes. Furthermore, KOSEN fosters practical and creative engineers from an international perspective. Students deepen their understanding to the point where they can freely apply their specialized knowledge to any situation through a combination of "head-on" thinking experience through lectures and exercises and "hands-on" actual experience through experiments and practice.

低学年次は、技術者として基礎となる専門科目を学び、学年が進むにつれ、専門科目を中心に技術者としての素養を身につけるカリキュラムを組んでいます。

高専では、講義・実験・実践の3つのステップを有機的に組み合わせながら、国際的な視野を持つ実践的で創造性のあるエンジニアの育成に取り組んでいます。学生は、講義や演習による「頭を動かす」思考体験と実験や実習による「手を動かす」現物使用体験を組み合わせた手法により、専門知識を必要な場面で自在に応用できる域まで理解を深めています。



Example of Electronic/Digital circuit course デジタル回路コースの例

| | Lecture Phase 講義段階 | | | Р | ractice Phase 実験段階 | | Experiment Phase 演習段階 | | | |
|---|-----------------------|---|---|---|--------------------------------|---|--------------------------|---|--|--|
| 4 | 3-1 | Combinatorial logic circuit 組合せ論理回路 | 1 | 3-2 | Simplified method 回路の簡単化 | 4 | 3-3 | Basic logic circuit-making 基本論理回路の作成 | | |
| | 2-1 | Logic circuit 論理回路 | | Truth table creation 真理値表の作成 Current-voltage calculation 電流-電圧計算 | | | 2-3 | AND/OR circuit AND/OR回路 | | |
| | 1-1 | Elements (diode, Tr) 素子(ダイオード、Tr) | | | | | 1-3 | Circuit structure and measurement 回路構成と測定 | | |
| | | | | | | | | | | |

Departments - 学科-

機 Mechanical Eng. Material Eng. 機械系、材料系学科

The students learn the specialized subjects which are indispensable for designing and development of engineering systems (e.g. robots) in a consistent manner. The students also acquire solid fundamental skills as well as flexible behaviors and execution abilities which can make them adjusted to technology innovation under new era.

ロボットなどのシステムを実現するための設計や開発に必要不可欠な専門科目を系統的に学びます。新時代の技術革新にも 対応できる確かな基礎力や柔軟な発想力、応用力を身に付けます。





- Those who are interested in the mechanism of airplanes and robots and want to learn about design and monozukuri. 飛行機やロボットなど機械のしくみに興味があり、設計やものづくりを 習得したい人
- Those who are interested in the development of new materials and substances. 新しい材料物質の開発に興味のある人

SUBJECTS

- ■Strength of Materials (材料力学)
- ■Mechanical Design·Drawing(機械設計法·製図)
- ■Fluid Engineering(流体工学)
- ■Instrumentation Engineering(計測工学)
- ■Analytic Chemistry (分析化学)
- ■Materials Science(材料学)
- ■Strength and Fracture of Materials (材料強度学)
- ■Machining(加工学)
- ■Inorganic Chemistry (無機化学)
- ■Thermodynamics (熱力学)
- ■Control Enineering(制御工学)

■Organic Materials (有機材料)

電 Electrical · Electronic Eng. 電気·電子系学科

The students learn a wide range of knowledge and technology of electricity in order to be capable of connecting and controlling electronic devices, home appliances and robots. The students also acquire expertise and adaptability required in a variety of fields.

電気や家電、ロボットなど、電気・電子と機器を結び付け、コントロールする知識・技術について、幅広く学びます。あらゆる分野 で必要とされる専門的な知識と応用力を身に付けます。





- Those who are interested in new electric products, such as smartphones and robots, and electronics manufacturing. スマートフォンやロボットなどの新しい電気製品や電子工作に興味のある人
- Those who are interested in power generation and transmission and new energy. 発電、送電、新エネルギーに興味のある人

- ■Electromagnetics (電磁気学)
- ■Power Electronics (パワーエレクトロニクス) ■AC Circuit (交流回路)
- ■Power Generation, Transmission(発電·送電工学)
- ■Instrumentation Engineering(計測工学) Semiconductor Engineering (半導体工学)
- ■Electronics (電子工学)
- ■Digital Circuit (デジタル回路)

■Electronic Circuit (電子回路)

■Control Engineering(制御工学)

情 Information Tech. 情報系学科

The students learn a wide range of technology supporting the current information society, such as computer system, software, programming, security, communication and network technologies. The students consequently acquire solid fundamental skills and flexible execution abilities in terms of information engineering.

現代の情報化社会を支えるコンピュータシステムやソフトウェア、プログラミング、セキュリティ、通信・ネットワーク技術等につ いて幅広く学び、情報工学に関する確かな基礎力と柔軟な発想力を身に付けます。





- Those who like computers and are interested in the mechanism of the Internet and programming. コンピュータが好きでインターネットやプログラムのしくみに興味のある人
- Those who want to learn about technologies such as databases and networks.

-タベースやネットワークなどの技術を習得したい人

- ■Programming (プログラミング)
- ■Network Engineering (ネットワーク工学)
- ■Software Engineering(ソフトウエア工学)
- ■Information Theory (情報理論)
- ■Computer Architecture (コンピュータアーキテクチャ)
- ■Information Communication (情報通信工学)
- ■Database (データベース)
- ■Algorithm (アルゴリズム)
- ■System Design(システム設計)
- ■System Engineering (システム工学)

建 Civil Eng. Architectural Eng. 建設系、建築系学科

The students learn knowledge and skills for structure engineering (bridges, rivers, underground spaces, railways, and waterworks), space design (urban planning and landscape design) as well as infrastructure operation and maintenance. In addition, the students learn about residence and town development which are the foundations for people's life.

橋梁や河川、地下空間、鉄道、水道等の建設構造物、都市計画や景観デザイン等の空間設計や運営・維持に関することを学ぶ ほか、人々が生活するための基本となる住宅やまちづくりに関することを学びます。





- Those who are interested in construction technologies of roads, bridges, ports, and lifelines. 道路、橋、港、ライフライン等の建設技術に興味を持っている人
- Those who are interested in urban design and machizukuri in harmony with the natural environment. 都市設計や自然環境と調和したまちづくりに興味がある人

- ■Structural Engineering (構造工学)
- ■Urban Planing (都市計画) ■Coastal Engineering (海岸工学)
- ■Environmental Planning (環境計画)
- ■Landscape Design(景観デザイン) ■Earthquake Disaster Prevention (地震防災)
- ■Surveying(測量学)
- ■Building Design (建築デザイン)
- ■Building Equipment(建築設備)
- ■Architectural Planning Drawing(建築設計製図)
- ■Building Environmental Engineering (建築環境工学)

化 Chemical Eng. Biological Eng. 化学系、生物系学科

The students learn a wide range of technologies such as science-technology and biotechnology for developing and producing chemical and pharmaceutical materials as well as recycling technology and environmental improvement technology for building a sustainable society harmonizing with the environment. 化学・医薬品の材料を開発・生産するための科学技術、バイオ技術をはじめ、環境と調和した持続可能な社会構築のための リサイクル技術・環境改善技術など幅広く学びます。





- Those who are interested in chemical phenomena and want to learn about the properties and functions of materials accessible in our daily lives.
- 化学現象に興味を持ち、身の回りにある材料の性質や働きを学びたい人
- Those who are interested in life phenomena. 生命現象に興味・関心がある人

SUBJECTS

- ■Inorganic Chemistry (無機化学)
- ■Chemical Engineering(化学工学)
- ■Information Processing(情報処理) ■Environmental Chemistry (環境化学)
- ■Genetic Engineering(遺伝子工学) ■Analytic Chemistry (分析化学)
- ■Materials Techology(材料学) ■Physical Chemistry (物理化学)
- ■Biotechnology(生物工学)
- ■Organic Chemistry (有機化学)
- ■Biochemistry(生化学)
- ■Polymer Chemistry (高分子化学)

船 Maritime Tech. 商船系学科

This department is composed of two courses: the nautical science course for nurturing navigators and captains, and the marine engineering course for nurturing engineers and chief engineers. In both courses, through abundant experiments and practical lessons, the students learn a wide range of knowledge and technology necessary for maritime works including ship operation.

航海士・船長を目指す航海コースと機関士・機関長を目指す機関コースがあり、両コースともに実験・実習を多く取り入れ、 船舶運航等の海事関連職に必要な知識・技術を習得する科目等を幅広く学びます。





- Those who like the sea and nature and want to play an active role in the world.
- 海や自然が好きで世界中で活躍したい人
- Those who want to become the captain or chief engineer of a large-scale vessel.
 - 大型船の船長や機関長をめざす人

SUBJECTS

- ■Maritime Traffic Law(海上交通法)
- ■Marine Safety Engineering(船舶安全工学)
- ■Maritime Law(海事法規)
- ■Ship Handling(操船学)
- ■Ship Training (練習船実習)
- ■Internal-Combustion Engine (内燃機関学)
- ■Thermodynamics (熱力学)
- ■Marine Meteorology(海洋気象学) ■Electric Equipment (電気機器)
- ■Navigation(航海学)
- ■Hydraulic Mechanics(水力機械学) ■Maritime English (海事英語)

世 Departments Matching with Social Demands 社会的ニーズに対応した分野の学科

There are departments established for flexibly responding to needs of industry and society and to social changes and diverse economic developments. The students are nurtured to be business persons capable of playing actively overseas.

産業界および社会のニーズに柔軟に対応し、社会の変化や経済の多様な進展などにも対応できるよう設置された学科です。国際的に活躍できるビジネスパーソンを 育成しています。



- Business Communication (Fukushima) ビジネスコミュニケーション学科(福島高専)
- International Business (Toyama) 国際ビジネス学科(富山高専)
- Business Administration (Ube) 経営情報学科(宇部高専)

SUBJECTS *Study subjects depend on the departments.

- ■Business English (ビジネス英語)
- ■Statistics(統計学)
- ■Accounting(会計学)
- ■Intellectual Property(知的財産)
- ■Financial Accounting Theory(財務会計論)
- ■Marketing Management (マーケティング論)



複 Integrated Course 複合系学科

The students learn basic knowledge of multiple subjects during the lower grades and then proceed respectively to courses of specialized fields. The students acquire abilities to solve problems from a broad perspective by studying knowledge and skills of multiple expertise.

低学年次から複数の専門分野の基礎を学び、その後、自分に合った専門分野に進むことができる学科です。複数の専門分野 の知識や技術を学ぶことで、広い視野から問題をとらえ解決する力を身に付けます。





According to the specialty of each course, the students of lower grades study in common classes for fundamental knowledge of engineering and information technology. In the upper grades, the students study specialized subjects and conduct their own researches respectively. (Example) Laboratory Practicum for Creative Engineering / Information Literacy / Regional Community Studies / Research Activity / Practice on Specialized Engineering Technology

各校の専門性によって違ってきますが、低学年では工学基礎、情報基礎などの基礎知識を学ぶ共通科目、高学年になると各専門科目や課題研究など。 (例) 創造工学実験実習/情報リテラシ/地域コミュニティ学/課題研究/専門工学演習

The Number of international students by Nationality

- 国籍別留学生数 -

| | Total | Total of this Course | | Scholarships | | Malaysuan Government Scholarships | | Scholarships | | The Royal Thai Government Scholarships | | Privately Financed International Students | |
|----------------------------------|-------|----------------------------|---------------------|----------------------------|---------------------|--------------------------------------|---------------------|----------------------------|---------------------|---|---------------------|--|---------------------|
| Country | 10141 | Regu l ar Course | Addvanced Course | Regu l ar Course | Addvanced Course | Regular Course | Addvanced Course | Regu l ar Course | Addvanced Course | Regu l ar Course | Addvanced Course | Regu l ar Course | Addvanced Course |
| Thailand | 145 | 125 | 20 | 12 | - | - | - | - | - | 71 42 | 20 | - | - |
| Malaysia | 108 | 104 | 4 | - | - | 103 | 4 | - | - | - | - | 1 | - |
| Mongolia | 60 | 53 | 7 | 51 | 2 | - | - | 2 | - | - | - | - | 5 |
| Laos | 39 | 38 | 1 | 38 | - | - | - | - | - | - | - | - | 1 |
| Cambodia | 36 | 35 | 1 | 35 | - | - | - | - | - | - | - | - | 1 |
| Indonesia | 34 | 33 | 1 | 32 | 1 | - | - | - | - | - | - | 1 | - |
| Tunisia | 9 | 9 | - | 9 | - | - | - | - | - | - | - | - | - |
| Uganda | 8 | 8 | - | 8 | - | - | - | - | - | - | - | - | - |
| Myanmar | 8 | 8 | - | 8 | - | - | - | - | - | - | - | - | - |
| India | 6 | 6 | - | 6 | - | - | - | - | - | - | - | - | - |
| Brazil | 5 | 5 | - | 5 | - | - | - | - | - | - | - | - | - |
| Benin | 5 | 5 | - | 5 | - | - | - | - | - | - | - | - | - |
| Iran | 3 | 3 | - | 3 | - | - | - | - | - | - | - | - | - |
| Zimbabwe | 3 | 3 | - | 3 | - | - | - | - | - | - | - | - | - |
| China | 3 | 3 | - | - | - | - | - | - | - | - | - | 3 | - |
| Algeria | 2 | 2 | - | 2 | - | - | - | - | - | - | - | - | - |
| Nigeria | 2 | 2 | - | 2 | - | - | - | - | - | - | - | - | - |
| Philippines | 2 | 2 | - | 2 | - | - | - | - | - | - | - | - | - |
| Madagascar | 2 | 2 | - | 2 | - | - | - | - | - | - | - | - | - |
| Mexico | 2 | 2 | - | 2 | - | - | - | - | - | - | - | - | - |
| Estonia | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Cameroon | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Cuba | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Kenya | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Croatia | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Colombia | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Democratic Republic of the Congo | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Sri Lanka | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Brunei Darussalam | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Vietnam | 1 | 1 | - | - | - | - | - | - | - | - | - | 1 | - |
| Peru | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Mali | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Mozambique | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Total | 495 | 461 | 34 | 237 | 3 | 103 | 4 | 2 | 0 | 113 | 20 | 6 | 7 |

(As of May 1, 2024)

[The Royal Thai Government Scholarships] Upper row: Students from PCSHS Lower row: Transfer students from Thai National College of Technology

Career Paths of KOSEN Graduates - 卒業後の進路 -

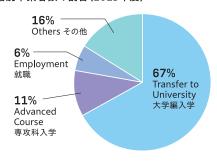
Majority of international students transfer to national universities after passing a transfer admission examination. 多くの留学生が、国立大学へ編入をしています。

■Career Paths of KOSEN Graduates 卒業後の進路

| Year of Entrance Examination 入試年度 | Number of Graduates 卒業者数 | Employment 就職者数 | Advanced course 専攻科進学者数 | Transfer to university 大学編入学者数 | Others その他 |
|---|--------------------------------|--------------------|-------------------------------|-----------------------------------|---------------|
| 2021 | 113 | 2 | 2 | 82 | 27 |
| 2022 | 131 | 5 | 10 | 76 | 40 |
| 2023 | 149 | 9 | 17 | 100 | 23 |

^{*}Others are those who will prepare for job hunting or higher education after returning to their home countries

■ Career Paths of KOSEN Graduates (2023) 進路別卒業者数の割合 (2023年度)



■ Employment and Further Education Opportunities for -International KOSEN Students after Graduation-(from May 1, 2022, to May 1, 2024)

留学生の卒業後の就職先・進学先情報(2022年5月1日~2024年5月1日現在)

| Employment 就職 | | | | | |
|---|--------------------------|--|--|--|--|
| Company Name 企業名 | Number of Students 人数 | | | | |
| Global Trust Networks Co., Ltd. (株)グローバルトラストネットワークス | 2 | | | | |
| COSMO INSTRUMENTS CO., LTD. (株)コスモ計器 | 1 | | | | |
| Komatsu Kaihatsu Kogyo 小松開発工業(株) | 1 | | | | |
| teamLab Inc. チームラボ(株) | 1 | | | | |
| TECMO CO.,LTD. (株)テクモ | 1 | | | | |
| FPT Japan Holdings Co., Ltd. FPTジャパンホールディングス(株) | 1 | | | | |
| Freewill, Inc. Freewill(株) | 1 | | | | |
| Hitachi Astemo Korat Brake Systems Ltd. | 1 | | | | |
| YMIT Co., Ltd. (株)YMIT | 1 | | | | |
| Employment in home country 母国にて就職 | 6 | | | | |

| Transfer to university, etc. 進学 | | | | | |
|---|--------------------------|--|--|--|--|
| Name of University, etc. 編入先大学等名 | Number of Students 人数 | | | | |
| Toyohashi University of Technology 豊橋技術科学大学 | 61 | | | | |
| KOSEN Advanced Course 高専専攻科 | 29 | | | | |
| Tokyo University of Agriculture and Technology 東京農工大学 | 25 | | | | |
| Nagaoka University of Technology 長岡技術科学大学 | 15 | | | | |
| Tokyo Institute of Technology 東京工業大学 | 13 | | | | |
| Kitami Institute of Technology 北見工業大学 | 11 | | | | |
| University of Electro-Communications 電気通信大学 | 9 | | | | |
| Shimane University 島根大学 | 8 | | | | |
| University of Fukui 福井大学 | 8 | | | | |
| Mongolian University of Science and Technology モンゴル科学技術大学 | 8 | | | | |
| Kyushu University 九州大学 | 7 | | | | |
| Tohoku University 東北大学 | 7 | | | | |
| Niigata University 新潟大学 | 6 | | | | |

after returning to their home countries.
※ その他は、帰国後に就職活動・進学準備を行う者です。

Tuition Fee - 学費 -

Entrance Fee 入学料

84,600 yen/Year

Annual Tuition 授業料

234,600 yen/Year

The third year students will receive the High School Tuition Support Fund (118,800yen) if they meet the requirements. Expenses for study materials, student association activities etc. are not included.

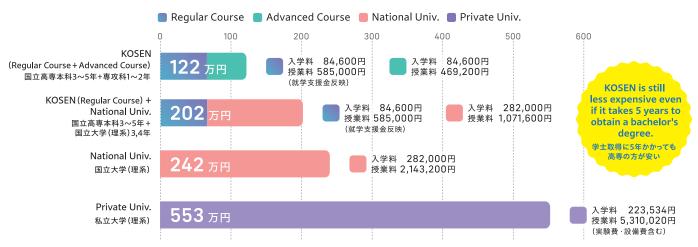
3年生については、条件を満たせば高等学校等就学支援金が支給されます。その他、教科書代、教材費、学生会費等の経費が必要となります。

Total tuition from the third year to graduation 高専3年次に編入学した場合の卒業までの授業料

(年数) (就学支援金)

 $234,600 \text{ yen} \times 3 - 118,000 \text{ yen} = 585,000 \text{ yen}$

■Comparison of tuition to obtain a bachelor's degree from the third year 学士取得までの学費の比較



*Regarding private univ., sited from the results of survey on student payments of enrollment in 2023 of MEXT. ※ 私立大学については、文部科学省の私立大学等の令和5年度入学者に係る学生納付金等調査結果によります。

Dormitory Life - 寮-

Every KOSEN has a dormitory. Lodging fee is 50,000-55,000 yen a month including meals and utilities.

Japanese students stay in the same dormitory, so you can make many Japanese friends.

Japanese student supprts your daily life as a TUTOR.

全ての高事に寮があります。寮費は食事代込みで5~5万5千円/月です。 日本人と同じ寮に住むのでたくさんの友達ができます。

日本人学生がチューターとして日常生活をサポート。

| Room Charge 寄宿料 | 800 yen/ month *Shared Room 700yen/ month | | | |
|----------------------------------|---|--|--|--|
| Food Costs 食費 | 37,000 yen/ month | | | |
| Maintenance Fee 寮費 | 11,000 yen/ month | | | |
| Air Conditioning Fee エアコンリース代 | 1,900 yen/ month *Personal electricity charge is not included. ※ 個人で使用した電気使用料は別途必要となります。 | | | |

^{*}The table above is an example. ※ 上図は一例

Scholarship - 奨学金 -

- 1. For the third year students, 118,800 yen are subtracted from the tuition fee. 高等学校等就学支援金(授業料から減額、3年生のみ): 授業料から118,800円/年が減額
- 2. Exemption of tuition fees* 授業料免除(成績、家計の審査あり)
- 3. Scholarship from JASSO* 文部科学省外国人留学生学習奨励費
- 4. Others* その他、地方公共団体や財団の奨学金制度

- *Academic performances and financial situation will be reviewed before granting scholarships.
- ※奨学金の支給にあたっては、学業成績および 財政状況を審査します。

^{*}Expenses for study materials, school trips, and miscellaneous costs are not included.

[※] 教材費・研修旅行費などさまざま雑費は含んでおりません

Third Year Admission Examination for Privately Financed International Students < Tentative >

- 第3学年編入学試験(外国人対象)〈予定〉-
- 1. All 51 KOSEN are avallable for application. 学生募集内容:全国51国立高専で受入
- 2. The following (a), (b), (c), (d) will be taken into consideration in the comprehensive evaluation. 選抜方法:次の(a)、(b)、(c)、(d)の総合で評価
 - (a) Application Form 出願書類 You can apply for a maximum of 5 KOSENs and departments. 志望高専・学科等を第5希望まで記入できます。
 - (b) Interview 面接試験
 - (c) Scores on the Examination for Japanese University Admission for International Students (EJU) (Japanese must be selected as the examination language.) 日本留学試験(EJU)の成績(出題言語は「日本語」)

Required Subjects 必須科目

"Japanese", "Science (2 subjects from Physics, Chemistry, and Biology)", and "Mathematics (Course 2)". 「日本語」、「理科(物理・化学・生物から2科目)」、「数学(コース2)」

Exceptions 例外

- Dept. of Business Communication (Fukushima College)
 福島高専ビジネスコミュニケーション学科
 "Japanese", "Japan and the World" and "Mathematics (Course 2)"
 「日本語」、「総合科目」、「数学(コース2)」
- Dept. of International Business (Toyama College) and Dept. of Business Administration (Ube College) 富山高専国際ビジネス学科および宇部高専経営情報学科
 - "Japanese", and "Japan and the World" or "Science (2 subjects from Physics, Chemistry, and Biology)", and "Mathematics (Course 1)" or "Mathematics (Course 2)".
 - 「日本語」、「総合科目」または「理科(物理・化学・生物から2科目)」、「数学(コース1)」または「数学(コース2)」
- (d) TOEFL, TOEIC L&R or IELTS Score 英語

https://www.kosen-k.go.jp/exam/hennyugaku3

Note 注意 -

There are other restrictions regarding examination subjects and dual applications for examination, so please refer to our website for the latest information.

Maritime Technology departments have the criteria of physical aptitude.

その他、受験科目や併願について制限があるので最新の情報を確認すること。商船学科は身体適性に関する基準がある。

3. Dates 日程

For the Dates, please refer to the Application Guideline or our website. 日程は、募集要項または国立高等専門学校機構のホームページを参照してください。

4. International Student Guide and Application Guideline are available on our website. 入学案内・編入学試験募集要項は、国立高等専門学校機構のホームページからダウンロード



Contact Information for the Third Year Admissions 第3学年編入学試験(外国人対象)に関する問合せ先



International Affairs and Planning Division, National Institute of Technology

国立高等専門学校機構本部事務局 国際企画課

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