

October 2022
April 2023
Application Guidelines
Doctoral Programs
Yokohama National University
Graduate School of
Engineering Science

How to Apply

All applicants must send a set of all required documents by post after applying online.

1. Required environment for the application

In order to complete the application procedure, applicants need PCs connected to the Internet, printers and their own email address.

2. Overview of the Application Procedure

Step 1 – Register

1) Visit YNU Web Application System;

<https://e-apply.jp/e/ynu/>

2) Select the preferred Department, etc. according to the guidance of the window.

3) Register your name, e-mail address, and other personal information.

4) You will receive a confirmation email after registration procedure is completed.

Step 2 – Apply online

1) Log in to YNU Web Application System, and fill in all the required information.

2) Select payment method for your application fee after you apply.

3) Pay the application fee as your choice.

4) After you have received an email that your payment was confirmed, print out all the documents via the YNU Web Application System.

Step 3 – Submission of the application documents

1) Send all the printed-out application documents and other required certificates by post in the designated application period.

2) Application procedure is only completed when YNU received all required documents by post.

Note: You **must** submit printed-out documents by post in order to complete the application. Only filling out the online application is not enough to successfully complete the application procedure.

Please read the instructions of this application guideline and the YNU Web Application System carefully.

[Notice of Special Measurements of Graduate school application procedures due to the outbreak of COVID-19]

YNU has adopted the following special measures only for this entrance examination due to the outbreak of COVID-19.

Depending on the circumstances, there is a possibility of changing examination contents and implementation method. As for the latest information, please check the "Admissions" page on the Graduate School's website (<https://www.fse.ynu.ac.jp/english/index.html>) regularly.

1. Foreign language test (English)

- For this entrance examination only, regarding of the score certificate by either TOEIC or TOEFL, modify requirements of expiration period as follows.

Before

We accepted a score certificate from a test taken in the last two years counting from the application deadline.

This examination

We accept if you could submit the original certificate on the date of the examination.

(Regardless of the expiration date)

- We accept the score of TOEFL iBT Home Edition and TOEFL iBT Paper Edition.

2. Applicants who are affected with COVID-19 or are close contact

In principle, if you meet the conditions mentioned above, you can NOT take the examination on the day.

※As details below (written part in red), this is the special measures for this entrance examination according to the spread of infection ,COVID-19.

Introduction

This booklet provides application guidelines for admission to doctoral programs at the Graduate School of Engineering Science of Yokohama National University in October 2022 and April 2023.

Chapters I and II describe the admission procedure, followed by an overview of doctoral programs and a list of supervisors in Chapters III and IV. Chapters V and VI describe special exceptions for studies by professionals.

Prospective students are requested to carefully read this extensive booklet, find the information that pertains to them, and apply with the correct procedures based on an accurate understanding.

File an application after close consultation with your intended supervisor or with faculty members serving as contact persons in Table 1 (see page 4).

Go to the website of the Graduate School of Engineering Science, Yokohama National University to find out about the school and see research conducted by each faculty member.

<https://www.fse.ynu.ac.jp/index.html>

[Security export control]

Pursuant to the Foreign Exchange and Foreign Trade Act, Yokohama National University (YNU) stipulates YNU Regulations for Security Export Control to rigorously screen admission of international students with respect to exported goods, technical assistance, and people-to-people exchange. Accordingly, some international students may have limited access to research and educational programs despite their preference. Be aware of such restrictions and consult with your intended supervisor prior to filing your application. International students are requested to sign a pledge to comply with the Foreign Exchange and Foreign Trade Act. For more details, visit the following website of the YNU's Research Initiatives and Promotion Organization.

https://www.ripo.ynu.ac.jp/index/adscreening_jp/

Handling of personal information

In addition to their screening, applicants' performance on admission examinations and the personal information stated in their applications may also be used to prepare materials related to exemptions from entrance fees (Excluding international students) and other benefits requested by applicants, as well as for studies and research conducted at our university. Any results of such studies and research will be handled so that individuals cannot be identified. Personal information will be used or provided in no other ways.

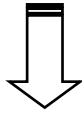
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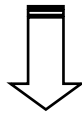
Note on terminology: In these admission guidelines, "master's program" refers to the first two years of a graduate program and "doctoral program" refers to the last three years of a graduate program.

Screening process

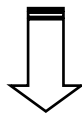
Assessment of eligibility (only if necessary)
Monday, May 16– Wednesday, May 18, 2022



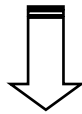
Online Application
Friday, May 27– Tuesday, June 7, 2022



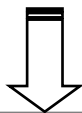
Application period by post
Friday, June 3 – Thursday, June 9, 2022



Examination
Tuesday, August 23 – Wednesday, August 24, 2022



Announcement of successful applicants
Thursday, September 8, 2022



Admission
[Admission in October 2022]
Friday, September 9– Thursday, September 15, 2022
[Admission in April 2023]
Wednesday, March 8– Tuesday, March 14, 2023

Table 1 Faculty members to consult with regarding respective specializations.

Department	Unit/ Specialization	Contact persons
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering / Mechanical Engineering, Aerospace Engineering	Associate Prof. SHINOZUKA Jun shinozuka-jun-yx@ynu.ac.jp
	Materials Science Frontier/ Materials Science Frontier, Aerospace Engineering	Associate Prof. MAENO Tomoyoshi maeno-tomoyoshi-yf@ynu.ac.jp
	Systems Design for Ocean-Space/ Systems Design for Ocean-Space, Aerospace Engineering	Associate Prof. HIGUCHI Takehiro higuchi-takehiro-cy@ynu.ac.jp
Chemistry and Life Science	Advanced Chemistry/ Chemistry, Applied Chemistry, Energy and Sustainable Chemistry	Associate Prof. KAWAMURA Izuru kawamura-izuru-wx@ynu.ac.jp
	Chemistry Applications and Life Science/ Chemistry Applications and Life Science, Energy and Sustainable Chemistry	Associate Prof. NITTAMI Tadashi nittami-tadashi-gs@ynu.ac.jp
Mathematics, Physics, Electrical Engineering and Computer Science	Mathematical Sciences/ Mathematical Sciences	Prof. KAJIWARA Takeshi kajiwara-takeshi-tj@ynu.ac.jp
	Physics/ Physics	Associate Prof. SHUDO Ken-ichi shudo-ken-ichi-jw@ynu.ac.jp
	Electrical and Computer Engineering/ Applied Physics, Information Systems, Electrical and Computer Engineering	Associate Prof. SUGIMOTO Chika sugimoto-chika-zb@ynu.ac.jp

* Units are categories for conducting entrance examinations. Admitted students are assigned to one of the above specializations.

* Before filing your application, consult with the faculty member in charge of your desired field of study or faculty members serving as contact persons.

I Admission Guidelines for General Students

1. Number of students admitted

[Admission in October 2022]

Department	Unit*	Specialization	Educational program	Number of students admitted	
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	Mechanical Engineering	TED or PED	A few	
	Materials Science Frontier	Materials Science Frontier	TED or PED		
	Systems Design for Ocean-Space	Systems Design for Ocean-Space	TED or PED		
Chemistry and Life Science	Advanced Chemistry	Chemistry	PSD	A few	
		Applied Chemistry	TED		
	Chemistry Applications and Life Science	Chemistry Applications and Life Science	TED or PED		
Mathematics, Physics, Electrical Engineering and Computer Science	Mathematical Sciences	Mathematical Sciences	SD		A few
	Physics	Physics	PSD		
	Electrical and Computer Engineering	Applied Physics	Electrical and Computer Engineering	TED or PED	
		Information Systems			

[Admission in April 2023]

Department	Unit*	Specialization	Educational program	Number of students admitted
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	Mechanical Engineering	TED or PED	11
	Materials Science Frontier	Materials Science Frontier	TED or PED	
	Systems Design for Ocean-Space	Systems Design for Ocean-Space	TED or PED	
Chemistry and Life Science	Advanced Chemistry	Chemistry	PSD	12
		Applied Chemistry	TED	
	Chemistry Applications and Life Science	Chemistry Applications and Life Science	TED or PED	

Mathematics, Physics, Electrical Engineering and Computer Science	Mathematical Sciences	Mathematical Sciences	SD	18
	Physics	Physics	PSD	
	Electrical and Computer Engineering	Applied Physics	TED or PED	
		Information Systems Electrical and Computer Engineering		

* Units are categories for conducting entrance examinations. Admitted students are assigned to one of the above specializations.

2. Eligibility

Eligibility is acknowledged for applicants with any of the following profiles:

- (1) Applicants awarded master's degrees or professional degrees, or expected to be awarded the same prior to admission to our graduate school
- (2) Applicants awarded degrees in countries other than Japan that are comparable to master's degrees or professional degrees, or expected to be awarded the same prior to admission to our graduate school
- (3) Applicants awarded degrees that are comparable to master's degrees or professional degrees after taking correspondence courses offered by foreign schools while in Japan, or expected to be awarded the same prior to admission to our graduate school
- (4) Applicants who have completed or are expected to complete (prior to admission to our graduate school) programs specified by the Minister of Education, Culture, Sports, Science and Technology among educational facilities that are recognized as graduate schools according to the school education systems of other countries and awarded degrees that are comparable to master's degrees or professional degrees, or expected to be awarded the same prior to admission to our graduate school
- (5) Applicants who completed courses offered by the United Nations University and awarded degrees that are comparable to master's degrees or expected to be awarded the same prior to admission to our graduate school
- (6) Applicants who graduated from colleges or were awarded bachelor's degrees pursuant to Paragraph 7, Article 104 of the School Education Act (National Institution for Academic Degrees and Quality Enhancement of Higher Education), engaged in at least two years of research at universities or research institutes, and whose academic achievements evaluated based on the research outcomes are acknowledged by our graduate school to be comparable or superior to holders of master's degrees
- (7) Applicants who have completed 16 years of their school education in other countries, or completed 16 years of their school education in other countries by taking correspondence courses offered by foreign schools while in Japan, engaged in at least two years of research at universities or research institutes, and whose academic achievements evaluated based on the research outcomes are acknowledged by our graduate school to be comparable or superior to holders of master's degrees
- (8) Applicants whose academic achievements were assessed individually by our graduate school and are acknowledged to be comparable or superior to holders of master's degrees or professional degrees, and who will reach age 24 by the time they enroll in our graduate school

[Note 1] Under no circumstances will eligibility be acknowledged for applicants who do not satisfy the above requirements.

[Note 2] Eligibility (8) is acknowledged for applicants whose books, theses, presentations, reports, patents, and other achievements are acknowledged to be comparable or superior to master's theses, and who reaches age 24 by the enrollment to our graduate school.

[Note 3] Applicants wishing to claim Eligibility (6)–(8) must first undergo an eligibility assessment. Consult with a faculty member of your desired field and submit the following documents in an envelope to the Graduate School of Engineering Science Section **between Monday, May 16 and Wednesday, May 18, 2022**. Application documents are accepted by post or directly at the section office as long as they meet the deadline.

(The section office is open from 9:00 a.m. until 5:00 p.m. except for a break from 12:45 p.m. to 1:45 p.m.)

Necessary designated forms should be downloaded from the Graduate School's website.

[Documents submitted by applicants claiming Eligibility (6) or (7)]

- [1] Detailed statement of application documents (Attachment 1)
- [2] Application for certificate of eligibility (Form 10)
- [3] Eligibility Accreditation Record (Form 13)
- [4] Record of Research Achievements (Form 16)
- [5] (Desired) Research Plan (Form 17)
- [6] Diploma from the most recently completed educational level
- [7] Transcript from the most recently completed educational level
- [8] An addressed return envelope (Size-L3) with a 354 yen stamp for express mail

[Documents submitted by applicants claiming Eligibility (8)]

- [1] Detailed statement of application documents (Attachment 1)
- [2] Application for certificate of eligibility (Form 12)
- [3] Eligibility Accreditation Record (Form 13)
- [4] Certificate of (expected) graduation or enrollment period from the most recent educational level
- [5] Transcript from the most recently completed educational level
- [6] Record of Research Achievements (Form 16)
- [7] (Desired) Research Plan (Form 17)
- [8] An addressed return envelope (Size-L3) with 354 yen worth of stamps for express mail

The eligibility assessment is conducted by the Graduate School of Engineering Science, Yokohama National University. The result is delivered by post on **Monday, May 30, 2022**. If your eligibility is recognized, proceed by applying within the specified period. If you have any questions, contact the Graduate School of Engineering Science Section.

Advancement to doctoral programs on recommendation

Students at the Graduate School of Engineering Science or the Graduate School of Engineering, YNU who are expected to earn master's degrees prior to admission to our graduate school and wish to advance to doctoral programs on recommendation from the Graduate School of Engineering Science or the Graduate School of Engineering should make sure to consult with their supervisors and faculty members serving as contact persons in Table 1 (see page 4) no later than **Friday, May 13, 2022**.

The decision on eligibility for advancement to doctoral programs on recommendation will be communicated to the applicants through their supervisors on or after **Friday, May 27, 2022**. Applicants whose eligibility is recognized are requested to submit the "Statement for advancement to doctoral program on recommendation" to be provided later, Label 1 for a return envelope [Form 31] provided by our school (write your name, address, postal code, and attach a 400-yen express mail stamp), and Label 2 for a return envelope [Form 32] (write your name, address, and postal code) to the Graduate School of Engineering Science Section **between Friday, June 3 and Thursday, June 9, 2022**. In addition,

Applicants of Private-expense international students for Tuition Waivers must submit Application form (see VII. Yokohama National University Tuition Waiver Program for Privately Financed International Students)

Letters of acceptance will be delivered by post to successful applicants on **Thursday, September 8, 2022.**

3. Application procedure

After applying online, enclose the application documents (Please see below 4) in a Size-2 envelope (24 cm × 33.2 cm). Download the label for filing an application (Form 30) from YNU Web Application System. Attached the filled-out label to the envelope and send it via registered mail.

3-1. Online Application

The online application form must be completed during the period **between Friday, May 27, 2022 and Tuesday, June 7, 2022.**

YNU Web Application System URL: <https://e-apply.jp/e/ynu/>

[Note]

- 1) Please note that an error message will show if there is no transmission for 60 minutes.
- 2) To temporarily suspend the input work in the Web application system, click "Save temporarily" Please log out. After re-logging in, input can be resumed. Other methods Input operation will be canceled if you interrupt the input work with.
- 3) If you have any questions about YNU Web Application System, please contact the following.

DISCO Inc. Learning and Education Application Service Support Center

TEL : 0120-202079 (Reception time : from Monday to Friday, 10:00 — 18:00)

Email : cvs-web@disc.co.jp

Only filling out the online application is not enough to successfully complete the application procedure. Send all the application forms printed out and other required materials by post. Please see below 3-2 to 4.

3-2. Application by post

Submit your application documents by registered mail **between Friday, June 3 and Thursday, June 9, 2022.**

Applications are only accepted by registered mail and only during the application period. No direct applications are accepted, nor is application by email.

Send your application as early as possible keeping in mind the time required for delivery by the postal service lest it reach us after the deadline and be rejected. As an exception, an application sent by **registered express mail that is postmarked by the originating post office by Wednesday, June 8, 2022** will be accepted even if it reaches us after the deadline.

[Note 1] Some post offices do not provide postal services on Saturdays, Sundays, and holidays. Make sure to check the schedule of your local post office.

[Note 2] Applicant who lives in abroad should send application documents by post through representative who lives in Japan. In the case of sending documents from abroad as needed, please send by recorded mail such as EMS (Express Mail Service) to reach us no later than **June 9, 2022.** 【by due date without fail】 However, return address is only in Japan.

[Note 3] We accept the application documents at the reception counter only through academic supervisor who gave provisional acceptance letter to applicant who lives in abroad.

3-3. Address for filing an application

4. Application documents

Necessary designated forms should be downloaded from the YNU Web Application System and the Graduate School's website. Be sure to print them only on **one side** of **white A4-sized paper**.

Application documents	Note	Form number
Detailed statement of application documents	<u>Print out the form after downloading it from the Graduate School's website.</u> Enclose the application documents in the order listed in this form.	Attachment 2 *G
Application for admission	<u>Print out the form through YNU Web Application System after filling in all the required information(your name, address, phone#, educational history, Preferred Department, Unit, Specialization, Program, Academic supervisor, etc.)</u> Attach one 4-cm by 3-cm upper body shot taken in the last 3 months on a solid-color background without any headwear to your application. [Note] Please attach the same photo as the photo attached to the Application for admission on the printed Admission ticket (Please see below 5).	1-1 *Y
Certificate of (expected) completion	To be prepared by the president or dean of the school where the applicant was or is enrolled. - If a copy of a diploma is used as a substitute, the original must be presented at the Graduate School of Engineering Science Section. - International students are required to submit the certificate of degree or a document stating a degree (except for applicants claiming Eligibility (1)). - Any certificate written in a language other than Japanese or English must be accompanied by a Japanese or English translation.	
Transcript	To be prepared by the president or dean of the school where the applicant was or is enrolled. Any certificate written in a language other than Japanese or English must be accompanied by a Japanese or English translation.	
Certificate of resident status (only international students)	Foreign residents of Japan are requested to submit copies of both sides of their resident cards. Other foreigners are requested to submit copies of their passports.	
Curriculum Vitae of international student (only international students)	<u>Print out the form through YNU Web Application System after applying online.</u> (excluding applicants claiming Eligibility (1))	19-1 *Y
Provisional Acceptance Letter (only international students)	<u>Print out the form after downloading it from the Graduate School's website.</u> The submitted letter needs to be signed by your prospective supervisor. The signature does not necessarily have to be a handwritten original.	19-2 *G

Master's thesis with abstract	<p>Submit your master's thesis or another thesis as a substitute (1 copy), and an abstract about 2,000 Japanese characters or 500 English words long (1 copy).</p> <p>Applicants expecting to complete master's programs are requested to provide a summary of their research project and the progress made in about 2,000 Japanese characters.</p>	
Record of Research Achievements	<p><u>Print out the form after downloading it from the Graduate School's website.</u> List your published papers and research achievements (1.Title of the academic paper, research report, patent, etc. 2.Date of publication or presentation, 3.Name of the publisher, the magazine in which the finding was reported, the academic conference at which the finding was presented, etc. 4.Name of the coauthor or co-presenter Remarks). Attach supplemental material if available.</p>	16 * G
(Desired) Research Plan	<p><u>Print out the form after downloading it from the Graduate School's website.</u> Submit your (desired) research plan for your doctoral program up to 500 words. Consult with your prospective academic supervisor before submitting.</p>	17 * G
Entrance application fee	<p>Amount: 30,000 yen Payment period: Make the payment by Tuesday, June 7, 2022 Payment method According to payment guide of YNU Web Application system, please pay the application fee.</p> <p>(1) Applicants living outside Japan and international students living in Japan Payments can be made by credit card (VISA, MasterCard, JCB, American Express, MUFG, DC, UFJ, and NICOS) and online with China UnionPay.</p> <p>(2) Japanese and international students living in Japan [Payment at a convenience store] (Payments can only be made through Seven Eleven, Lawson, Ministop, FamilyMart, and Circle K Sunkus.) - Make a payment using an information terminal in a store. (Payments cannot be made from an ATM. Make the payment at a cash register.) * For details of payment method, please see below. YNU Web Application system → introduction → Application Fee</p> <p>[Note 1] Applications will not be accepted without payment of the entrance application fee. [Note 2] All charges involved are to be covered by the applicants. [Note 3] Payments are not required from applicants who are expected to complete master's programs or professional degrees programs at graduate schools of our university by the month before admission to our graduate school, nor from Japanese government-financed (MEXT) international students (enclose the original government sponsorship certificate in the application; copies are not acceptable).</p>	

	* Waiver of entrance application fee for affected people in the area subject to the Disaster Relief Act and the like YNU waives the entrance application fee for applicants affected by disasters to ensure they have the opportunity to seek admission. For more details, please visit our website (https://www.ynu.ac.jp/exam/).	
Tuition Waivers for Private-expense international students Application form	Please see VII Please submit only Tuition Waivers applicants.	

***G The Graduate School's website**

***Y YNU Web Application System**

[Note] Exemption from submission of certain documents

Applicants with Eligibility (6)–(8) do not need to resubmit certificates and other documents submitted for gaining certificates of eligibility.

5. Admission ticket for examination

We inform you by e-mail that we have officially accepted the application by **Wednesday, June 22, 2022**. In accordance with the notes stated in the e-mail, please login to the YNU Web Application System and print out the Admission ticket for examination. Please attach the same photo as the photo attached to the Application for admission on the printed Admission ticket and bring it on the examination day.

[Note]

You **must not** write anything on both the front and the back of your admission ticket.

6. Screening method and schedule

Screening is based on academic achievement tests (English as a foreign language, academic subject, and oral) and review of application documents. English proficiency is evaluated based on the score from an English proficiency test (either TOEIC or TOEFL). Applicants who miss either the examination on academic subjects or oral examination, or if they fail to submit valid TOEIC or TOEFL score certificates will not be admitted.

(1) Academic achievement tests

(A) Examination on academic subjects

Applicants must answer questions related to their intended fields of research.

(B) Oral examination

In the oral examination, questions will be asked regarding each applicant's master's thesis or another equivalent thesis (research abstract in case of applicants expecting to complete master's program), intended research plan for the doctoral program, and their specialization. Ask your intended supervisor for any instructions for taking the oral examination.

(2) Subject and date of academic achievement test

Date	Subject	Score	Remarks
—	English	100	Screening is based on original score certificates of TOEIC or TOEFL.

Tuesday, August 23	Academic subject	400	10:30–12:30
Tuesday, August 23 to Wednesday, August 24	Oral examination	400	The date and venue for the examination will be specified when the assigned examination rooms are announced (see 6 (3)).

- Examinees must enter their assigned rooms 20 minutes prior to their examinations.
- Score certificates of TOEIC or TOEFL (original only—copies and printouts of downloaded PDFs are not acceptable) are collected during the examination on academic subjects.
- International students are permitted to use language dictionaries exclusively for the examination on academic subjects, but no electronic dictionaries are allowed.
- International students may answer questions in English in examinations on academic subjects and oral examinations.

(3) Venue

Academic achievement tests are conducted on the campus of Yokohama National University in Tokiwadai, Hodogaya-ku, Yokohama.

- Room assignment will be posted on YNU Web Application System **by Friday, August 5, 2022**.
(YNU Web Application System URL: <https://e-apply.jp/e/ynu/>)

(4) Screening by written examinations: TOEIC and TOEFL scores

The score certificates from the following tests are reviewed in the examination.

Examined test	Score certificate to be submitted	Official website
TOEIC Listening & Reading Test (public test)	Official Score Certificate	TOEIC (http://www.toeic.or.jp/)
TOEFL-iBT TOEFL iBT Home Edition TOEFL iBT Paper Edition	Test Taker Score Report/ Examinee Score Report	TOEFL (https://www.ets.org/toefl/)

* **Performance in TOEIC Bridge, TOEIC Speaking & Writing Test, TOEFL-PBT or institutional testing programs such as TOEIC IP and TOEFL ITP is not acknowledged.**

* **Score certificates from TOEFL need to be submitted on the date of the examination. Our university does not accept any score certificates sent directly from ETS.**

- Submit a score certificate from TOEIC or TOEFL **on the day of your examination (Original only, no copies are accepted. The same rule applies elsewhere.)**. Score certificates are collected during the examination on academic subjects.
- Submit an **original** score certificate **on the date of the examination regardless of the expiration date. from a test taken in the last two years counting from the application deadline. For admission in October 2022 and April 2023, we accept score certificates from tests taken between June 10, 2020 and June 9, 2022.** If you have taken multiple tests, submit the certificate with the best total score. Applicants who submit invalid score certificates or fail to submit certificates at the designated time during the examination **will not be admitted.**
- **【About TOEFL score】**Graduate School of Engineering Science does not recognize “My Best Scores” written on “Test Taker Score Report” .
- Submit a score certificate with **a photo of your face.**
- TOEIC scores are converted according to the following table into a scale of 100 points and are

counted as the examination on foreign language (English).

- Conversion method for TOEIC scores

TOEIC	Conversion method	Foreign language (English)
349 points or less	0	0 points
350–500 points	$(\text{TOEIC} - 350) / 3$	0–50 points
500–800 points	$(\text{TOEIC} - 500) / 6 + 50$	50–100 points
801 points or more		100 points

- TOEFL-iBT scores are converted according to the following table into a scale of 100 points and are counted as the examination on foreign language (English).

TOEFL-iBT	Foreign language (English)	TOEFL-iBT	Foreign language (English)	TOEFL-iBT	Foreign language (English)	TOEFL-iBT	Foreign language (English)	TOEFL-iBT	Foreign language (English)
~90	100	76	84	63~62	66	51	47	41	18
89	99	75~74	82	61	64	50~49	43	40	15
88	98	73~72	80	60~59	63	48	40	39	12
87~86	96	71	78	58	61	47	38	38	7
85~84	95	70~69	75	57	59	46	34	37~36	2
83	92	68	74	56	56	45	31	35~	0
82~81	90	67~66	73	55~54	55	44	28		
80~79	88	65	71	53	53	43	24		
78~77	87	64	68	52	51	42	21		

- Scores are rounded to the nearest whole number.
- Submitted score certificates will not be returned to applicants.

7. Announcement of successful applicants

Thursday, September 8, 2022 around 4:00 p.m.

Acceptance letters are sent to successful applicants by post. In addition, registration numbers of successful applicants are posted on the website of the Graduate School of Engineering Science (<https://www.fse.ynu.ac.jp/index.html>).

[Note 1] The acceptance letter is the sole document entailing our official acceptance.

[Note 2] We do not respond to any inquiries regarding the outcome of the examination via phone calls and so forth.

8. Required payments for admission

- (1) Admission fee 282,000 yen (current amount)
- (2) Annual tuition 535,800 yen (current amount)

[Note 1] Payment (1) should be made during the admission period (**Friday, September 9–Thursday, September 15, 2022 for admission in October 2022, and Wednesday, March 8– Tuesday, March 14 2023 for admission in April 2023**). Necessary documents for the admission procedure are sent along with the acceptance letter (for admission in October 2022) or sent around mid February 2023 (for admission in April 2023).

Applicants who do not complete the necessary procedures during the admission period will be considered to have withdrawn from admission.

[Note 2] The amount of the admission fee and tuition are subject to change.

[Note 3] Any change in the amount of tuition while a student is enrolled will take effect from the moment the change is introduced.

[Note 4] **Payment (1) is not required from applicants who have completed master's programs or professional degrees programs at graduate schools of our university by the month before admission to our graduate school, nor from Japanese government-financed (MEXT) international students.**

9. Prior consultation by applicants who need special consideration for their examination or studies

Prior to application, any applicants with physical or mental disabilities (including those not listed in the following table) who require special consideration for their examination or studies must declare that fact to the Graduate School of Engineering Science Section using the form below.

Applicants who experienced accidents or unexpected trouble must also immediately declare any need for special consideration for their examination or studies.

Please contact us if you are not sure what classification applies to your situation.

[Major categories]

Classification	Degree of impairment
Visual impairment	Visual acuity of both eyes is less than 0.3 or an advanced impairment of eye functions other than vision which makes it difficult or impossible to recognize normal letters and figures even with the use of magnifying glasses or the like
Hearing impairment	Both ears with audible level of 60 dB or greater such that it is difficult or impossible to understand a person's normal speaking voice even with hearing aids or the like
Orthopedic impairment	1. Orthopedic impairment that makes it difficult or impossible to walk, write, or perform other daily activities on campus even with the use of adaptive equipment 2. Orthopedic impairment not as severe as above, which nevertheless requires constant medical observation and guidance
Poor health	1. Chronic respiratory disorders, kidney disorders, neurological disorders, malignant neoplasms, and other diseases that constantly require medical assistance or regimen 2. Physical weakness that requires constant regimen
Developmental impairment	Special needs associated with autism, Asperger's syndrome, pervasive developmental disorder, learning disability, or attention-deficit hyperactivity disorder

(Form) A4 vertical

Att.: Yokohama National University

Date (YYYY/MM/DD):

Name in *katakana*:

Name:

Date of birth:

Address:

Phone:

I hereby request consultation regarding my impairment before applying for admission to Yokohama National University.

1. Intended specialization, unit, department, and school

2. Type and degree of physical impairment
 3. Requested special consideration for taking the examination
 4. Requested special consideration for studies after enrollment
 5. Special consideration made by the school where the applicant was enrolled
 6. Other
- (Attachment) Copy of medical certificate or physical disability certificate, and another supporting document

[How to apply]

- (1) Prepare your application by following the above example and attach a copy of a medical certificate or physical disability certificate, and another supporting document.
- (2) Consult with us as early as possible before filing your application as it may take time for us to make accommodations for your request depending on its nature.
- (3) Place of submission and inquiry
Graduate School of Engineering Science Section, Yokohama National University
79-5 Tokiwadai, Hodogaya-ku, Yokohama, 240-8501 JAPAN
Phone: +81-45-339-3817

10. Reminders

- (1) Inadequately prepared application documents may be rejected.
- (2) No changes may be introduced to documents already submitted for the application procedure.
- (3) Application documents are not returned.
- (4) Entrance application fees are not refundable except in the following circumstances.
Contact the Graduate School of Engineering Science Section to find out how to ask for a refund.
 - A. An application was not filed after payment of the entrance application fee (application documents were not submitted or accepted).
 - B. Payment of the entrance application fee was made twice by mistake.
 - C. If applicants cannot come to YNU campus due to the measure of preventing infection (except in the case that the alternative measures are feasible).

* Refunds are made after deduction of processing fees.
- (5) Enrollment may be cancelled even after admission if false statements on application documents come to light.
- (6) Depending on your performance in the entrance examination, you may not be assigned to your desired specialization, educational program or supervisor. Consider your other choice.
- (7) Diplomas and transcripts submitted by applicants may be examined by a certification organization specified by YNU at the applicants' expense when YNU deems it necessary to have a third party authenticate them.
- (8) In order to obtain the status of residence as "student," international students must have sufficient financial resources to sustain their life on campus.
- (9) Any changes related to the entrance examination will be notified to applicants along with announcements on the website of the Graduate School of Engineering Science.
- (10) Always carry your admission ticket for examination on the day of examination.
- (11) Applicants are not admitted if they fail to take the assigned examinations on academic subjects, the oral examination, or if they fail to submit valid TOEIC or TOEFL score certificates.
- (12) Switch off your mobile phones and other devices and put them in your bag before entering your examination room.

- (13) Employees of public offices or companies need to obtain written approval of enrollment (free form) from their directors or representatives. Prepare such documents in advance of the enrollment procedures.
- (14) The admission fee is not refunded after the enrollment procedure under any circumstances.
- (15) Many students admitted to our graduate school make use of economic assistance programs, such as admission fee(excluding international students) and tuition waivers, and scholarship programs.

II Admission Guidelines for Special Screening of Professionals

1. Purpose

The Graduate School of Engineering Science strives to cultivate doctors who can take the reins of original technological development thanks to their extensive and adaptable knowledge, creativity, and international mindset. True to this purpose, our school is open to society and the world. In addition to the admission of Japanese and international students, special screenings have been put in place for engineers, researchers, and other professionals with adequate expertise and academic achievements to advance to our doctoral programs so that they can pursue even more advanced research and earn doctoral degrees. A special exception is made for educational systems under the Standards for Establishment of Graduate Schools (see Chapter V) to facilitate studies by professionals.

File an application after close consultation with your desired supervisor.

2. Number of students admitted

[Admission in October 2022] and [Admission in April 2023]

Department	Unit*	Specialization	Educational program	Number of students admitted
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	Mechanical Engineering	TED or PED	A few
	Materials Science Frontier	Materials Science Frontier	TED or PED	
	Systems Design for Ocean-Space	Systems Design for Ocean-Space	TED or PED	
Chemistry and Life Science	Advanced Chemistry	Chemistry	PSD	A few
		Applied Chemistry	TED	
	Chemistry Applications and Life Science	Chemistry Applications and Life Science	TED or PED	
Mathematics, Physics, Electrical Engineering and Computer Science	Mathematical Sciences	Mathematical Sciences	SD	A few
	Physics	Physics	PSD	
	Electrical and Computer Engineering	Applied Physics	Information Systems	
Electrical and Computer Engineering		Electrical and Computer Engineering		

* Units are categories for conducting entrance examinations. Admitted students are assigned to one of the specializations.

3. Eligibility

Engineers, researchers, or other professionals who have worked for more than two years in the same company or entity as a regular employee prior to enrolling in our university, or those who retain their position in their company or entity, are recommended for their excellent professional achievements, and satisfy at least one of the following conditions:

- (1) Applicants awarded master's degrees or professional degrees, or expected to be awarded the same prior to admission to our graduate school

- (2) Applicants awarded degrees in countries other than Japan that are comparable to master's degrees or professional degrees, or expected to be awarded the same prior to admission to our graduate school
- (3) Applicants awarded degrees that are comparable to master's degrees or professional degrees after taking correspondence courses offered by foreign schools while in Japan, or expected to be awarded the same prior to admission to our graduate school
- (4) Applicants who have completed or are expected to complete (prior to admission to our graduate school) programs specified by the Minister of Education, Culture, Sports, Science and Technology among educational facilities that are recognized as graduate schools according to the school education systems of other countries and awarded degrees that are comparable to master's degrees or professional degrees, or expected to be awarded the same prior to admission to our graduate school
- (5) Applicants who graduated from colleges or were awarded bachelor's degrees pursuant to Paragraph 7, Article 104 of the School Education Act (National Institution for Academic Degrees and Quality Enhancement of Higher Education), engaged in at least two years of research at universities or research institutes, and whose academic achievements evaluated based on the research outcomes are acknowledged by our graduate school to be comparable or superior to holders of master's degrees
- (6) Applicants who have completed 16 years of their school education in other countries, or completed 16 years of their school education in other countries by taking correspondence courses offered by foreign schools while in Japan, engaged in at least two years of research at universities or research institutes, and whose academic achievements evaluated based on the research outcomes are acknowledged by our graduate school to be comparable or superior to holders of master's degrees

[Note 1] Under no circumstances will eligibility be acknowledged for applicants who do not satisfy the above requirements.

[Note 2] The eligibility of each professional applying for the special admission is assessed before the special screening. Consult with faculty members of your desired field of study and submit the following documents (enclosed in any envelope) to the Graduate School of Engineering Science Section between **Monday, May 16 and Wednesday, May 18, 2022**. Applications are accepted both via postal mail or directly at the section office provided that they are delivered by the deadline.

(The section office is open from 9:00 a.m. to 5:00 p.m., except for the hours between 12:45 p.m. and 1:45 p.m.)

Necessary designated forms should be downloaded from the Graduate School's website.

[1] Detailed statement of application documents (Annex 1)

[2] Application for certificate of eligibility (Form 11)

[3] Eligibility Accreditation Record (Form 13)

[4] Diploma from the most recently completed educational level

[5] One of the following sets of documents depending on the eligibility:

a. Professionals in service: Approval of examination and recommendation letter prepared by the supervisor or equivalent at the employer

b. Persons with relevant working experience: Certificate of research or professional assignments

[6] Record of Research Achievements (Form 16)

[7] (Desired) Research Plan (Form 17)

[8] An addressed return envelope (Size-L3) with a 354-yen stamp for express mail

Applicants claiming eligibility (5) or (6) must undergo further assessment for eligibility in addition to the above assessment. In addition to the documents required for the eligibility assessment for special screening of professionals, enclose the following documents in an envelope and submit them to the Graduate School of Engineering Science Section between **Monday, May 16 and Wednesday, May 18, 2022**. Applications are accepted both via postal mail or directly at the section office provided that they are delivered by the deadline.

[9] Application for certificate of eligibility (Form 10)

[10] Transcript from the most recently completed educational level

The eligibility assessment is conducted by the Graduate School of Engineering Science, Yokohama National University. The result is delivered by post on **Monday, May 30, 2022**. If your eligibility is recognized, proceed by applying within the specified period.

If you have any questions, contact the Graduate School of Engineering Science Section.

4. Application procedure

After applying online, enclose the application documents (Please see below 4) in a Size-2 envelope (24 cm × 33.2 cm). Download the label for filing an application (Form 30) from YNU Web Application System. Attached the filled-out label to the envelope and send it via registered mail.

4-1. Online Application

The online application form must be completed during the period **between Friday, May 27, 2022 and Tuesday, June 7, 2022**.

YNU Web Application System URL: <https://e-apply.jp/e/ynu/>

[Note]

- 1) Please note that an error message will show if there is no transmission for 60 minutes.
- 2) To temporarily suspend the input work in the Web application system, click "Save temporarily" Please log out. After re-logging in, input can be resumed. Other methods Input operation will be canceled if you interrupt the input work with.
- 3) If you have any questions about YNU Web Application System, please contact the following.

DISCO Inc. Learning and Education Application Service Support Center

TEL : 0120-202079 (Reception time : from Monday to Friday, 10:00 — 18:00)

Email : cvs-web@disc.co.jp

Only filling out the online application is not enough to successfully complete the application procedure. Send all the application forms printed out and other required materials by post. Please see below 4-2 to 5.

4-2. Application by post

Submit your application documents by registered mail **between Friday, June 3 and Thursday, June 9, 2022**.

Applications are only accepted by registered mail and only during the application period. No direct applications are accepted, nor is application by email.

Send your application as early as possible keeping in mind the time required for delivery by the postal service lest it reach us after the deadline and be rejected. As an exception, an application sent by **registered express mail that is postmarked by the originating post office by Wednesday, June 8, 2022** will be accepted even if it reaches us after the deadline.

[Note 1] Some post offices do not provide postal services on Saturdays, Sundays, and holidays. Make sure to check the schedule of your local post office.

[Note 2] Applicant who lives in abroad should send application documents by post through representative who lives in Japan. In the case of sending documents from abroad as needed, please send by recorded mail such as EMS (Express Mail Service) to reach us no later than **June 9, 2022**. **[by due date without fail]** However, return address is only in Japan.

[Note 3] We accept the application documents at the reception counter only through academic supervisor who gave provisional acceptance letter to applicant who lives in abroad.

4-3. Address for filing an application

Graduate School of Engineering Science Section
Yokohama National University
79-5 Tokiwadai, Hodogaya-ku, Yokohama, 240-8501 JAPAN

5. Application procedure

Necessary designated forms should be downloaded from the YNU Web Application System and the Graduate School's website. Be sure to print them only on **one side** of **white A4-sized paper**.

Application documents	Note	Form number
Detailed statement of application documents	<u>Print out the form after downloading it from the Graduate School's website.</u> Enclose the application documents in the order listed in this form.	Annex 2 *G
Application for admission	<u>Print out the form through YNU Web Application System after filling in all the required information(your name, address, phone#, educational history, Preferred Department, Unit, Specialization, Program, Academic supervisor, etc.)</u> Attach one 4-cm by 3-cm upper body shot taken in the last 3 months on a solid-color background without any headwear to your application. [Note] Please attach the same photo as the photo attached to the Application for admission on the printed Admission ticket (Please see below 6).	1-1 *Y
Certificate of (expected) completion	To be prepared by the president or dean of the school where the applicant was or is enrolled. - If a copy of a diploma is used as a substitute, the original must be presented for verification at the Graduate School of Engineering Science Section. - International students are required to submit the certificate of degree or a document stating a degree (except for applicants claiming Eligibility 1). - Any certificate written in a language other than Japanese or English must be accompanied by a Japanese or English translation.	
Transcript	To be prepared by the president or dean of the school where the applicant was or is enrolled. Any certificate written in a language other than Japanese or English must be accompanied by a Japanese or English translation.	

Certificate of resident status (only international students)	Foreign residents of Japan are requested to submit copies of both sides of their resident cards. Other foreigners are requested to submit copies of their passports.	
Curriculum Vitae of international student (only international students)	<u>Print out the form through YNU Web Application System after applying online.</u> (excluding applicants claiming Eligibility 1)	19-1 *Y
Provisional Acceptance Letter (only international students)	<u>Print out the form after downloading it from the Graduate School's website.</u> The submitted letter needs to be signed by your prospective supervisor. The signature does not necessarily have to be a handwritten original.	19-2 *G
Master's thesis or another thesis, and abstract	Submit your master's thesis or another thesis (thesis showing research results so far) as a substitute (1 copy), and an abstract about 2,000 Japanese characters or 500 English words long (1 copy). Applicants expecting to complete master's programs are requested to provide a summary of their research project and the progress made in about 2,000 Japanese characters.	
Entrance application fee	<p>Amount: 30,000 yen Payment period: Make the payment by Tuesday, June 7, 2022 Payment method According to payment guide of YNU Web Application system, please pay the application fee.</p> <p>(1) Applicants living outside Japan and international students living in Japan Payments can be made by credit card (VISA, MasterCard, JCB, American Express, MUFG, DC, UFJ, and NICOS) and online with China UnionPay.</p> <p>(2) Japanese and international students living in Japan [Payment at a convenience store] (Payments can only be made through Seven Eleven, Lawson, Ministop, FamilyMart, and Circle K Sunkus.) - Make a payment using an information terminal in a store. (Payments cannot be made from an ATM. Make the payment at a cash register.) * For details of payment method, please see below. YNU Web Application system → introduction → Application Fee</p> <p>[Note 1] Applications will not be accepted without payment of the entrance application fee. [Note 2] All charges involved are to be covered by the applicants. [Note 3] Payments are not required from applicants who are expected to complete master's programs or professional degrees programs at graduate schools of our university by the month before admission to our graduate school, nor from Japanese government-financed (MEXT) international students (enclose the original government sponsorship certificate in the</p>	

	<p>application; copies are not acceptable).</p> <p>* Waiver of entrance application fee for affected people in the area subject to the Disaster Relief Act and the like YNU waives the entrance application fee for applicants affected by disasters to ensure they have the opportunity to seek admission. For more details, please visit our website (https://www.ynu.ac.jp/exam/index.html).</p>	
Tuition Waivers for Private-expense international students Application form	<p>Please see VII Please submit only Tuition Waivers applicants.</p>	

***G The Graduate School's website**

***Y YNU Web Application System**

[Note] Exemption from submission of certain documents

Documents that have already been submitted for the application for certificate of eligibility do not need to be submitted again.

6. Admission ticket for examination

We inform you by e-mail that we have officially accepted the application by **Wednesday, June 22, 2022**. In accordance with the notes stated in the e-mail, please login to the YNU Web Application System and print out the Admission ticket for examination. Please attach the same photo as the photo attached to the Application for admission on the printed Admission ticket and bring it on the examination day.

[Note]

You **must not** write anything on both the front and the back of your admission ticket.

7. Screening method

Screening is based on a review of the application documents and interviews (i.e., oral examinations regarding specialized subjects, master's thesis, research achievements, research plan, etc.). No applicants who miss interviews will be admitted. Ask your intended supervisor for instructions regarding the interview.

8. Interview schedule and venue

(1) Interview

Date	Examination method	Remarks
Tuesday, August 23 to Wednesday, August 24	Interview	The time and venue for the examination will be specified when the assigned examination rooms are announced (see 8(2))

- Examinees must enter their assigned rooms 20 minutes prior to their interviews.

(2) Interview venue

Interviews are conducted on the YNU Campus (Tokiwadai, Hodogaya-ku, Yokohama).

Interviews are selectable “face-to-face on the campus” or “Online”.

YNU decide which to choose in line with applicants wishes.

Assigned rooms for interviews are announced on YNU Web Application System **by Friday, August 5, 2022.**

(YNU Web Application System URL: <https://e-apply.jp/e/ynu/>)

9. Announcement of successful applicants

Thursday, September 8, 2022 around 4:00 p.m.

Acceptance letters are sent to successful applicants. In addition, registration numbers of successful applicants are posted on the website of the Graduate School of Engineering Science (URL: <https://www.fse.ynu.ac.jp/index.html>).

[Note 1] The acceptance letter is the sole document entailing our official acceptance.

[Note 2] We do not respond to any inquiries regarding the outcome of the examination via phone calls and so forth.

10. Required payments for admission

(1) Admission fee 282,000 yen (current amount)

(2) Annual tuition 535,800 yen (current amount)

[Note 1] Payment (1) should be made during the admission period (**Friday, September 9–Thursday, September 15, 2022 for admission in October 2022, and Wednesday, March 8– Tuesday, March 14 2023 for admission in April 2023**). Necessary documents for the admission procedure are sent along with the acceptance letter (for admission in October 2022) or sent around mid February 2023 (for admission in April 2023).

Applicants who do not complete the necessary procedures during the admission period will be considered to have withdrawn from admission.

[Note 2] The amount of the admission fee and tuition are subject to change.

[Note 3] Any change in the amount of tuition while a student is enrolled will take effect from the moment the change is introduced.

[Note 4] **Payment (1) is not required from applicants who have completed master's programs or professional degrees programs at graduate schools of our university by the month before admission to our graduate school, nor from Japanese government-financed (MEXT) international students.**

11. Prior consultation by applicants who need special consideration for their examination or studies

Prior to application, any applicants with physical or mental disabilities (including those not listed in the following table) who require special consideration for their examination or studies must declare that fact to the Graduate School of Engineering Science Section using the form below.

Applicants who experienced accidents or unexpected trouble must also immediately declare any need for special consideration for their examination or studies.

Please contact us if you are not sure what classification applies to your situation.

[Major categories]

Classification	Degree of impairment
Visual impairment	Visual acuity of both eyes is less than 0.3 or an advanced impairment of eye functions other than vision which makes it difficult or impossible to recognize normal letters and figures even with the use of magnifying glasses or the like
Hearing impairment	Both ears with audible level of 60 dB or greater such that it is difficult or impossible to understand a person's normal speaking voice even with hearing

	aids or the like
Orthopedic impairment	1. Orthopedic impairment that makes it difficult or impossible to walk, write, or perform other daily activities on campus even with the use of adaptive equipment 2. Orthopedic impairment not as severe as above, which nevertheless requires constant medical observation and guidance
Poor health	1. Chronic respiratory disorders, kidney disorders, neurological disorders, malignant neoplasms, and other diseases that constantly require medical assistance or regimen 2. Physical weakness that requires constant regimen
Developmental impairment	Special needs associated with autism, Asperger's syndrome, pervasive developmental disorder, learning disability, or attention-deficit hyperactivity disorder

[How to apply]

- (1) Prepare your application by following the example below and attach a copy of a medical certificate or physical disability certificate, and another supporting document.
- (2) Consult with us as early as possible before filing your application as it may take time for us to make accommodations for your request depending on its nature.
- (3) Place of submission and inquiry
Graduate School of Engineering Science Section, Yokohama National University
79-5 Tokiwadai, Hodogaya-ku, Yokohama, 240-8501 JAPAN
Phone: +81-45-339-3817

(Form) A4 vertical

Date (YYYY/MM/DD):

Att.: Yokohama National University

Name in *katakana*:

Name:

Date of birth:

Address:

Phone:

I hereby request consultation regarding my impairment before applying for admission to Yokohama National University.

1. Intended specialization, unit, department, and school
2. Type and degree of physical impairment
3. Requested special consideration for taking the examination
4. Requested special consideration for studies after enrollment
5. Special consideration made by the school where the applicant was enrolled
6. Other

(Attachment) Copy of medical certificate or physical disability certificate, and another supporting document

12. Reminders

- (1) Inadequately prepared application documents may be rejected.
 - (2) No changes may be introduced to documents already submitted for the application procedure.
 - (3) Application documents are not returned.
 - (4) Entrance application fees are not refundable except in the following circumstances.
Contact the Graduate School of Engineering Science Section to find out how to ask for a refund.
 - A. An application was not filed after payment of the entrance application fee (application documents were not submitted or accepted).
 - B. Payment of the entrance application fee was made twice by mistake.
 - C. If applicants cannot come to YNU campus due to the measure of preventing infection (except in the case that the alternative measures are feasible).
- * Refunds are made after deduction of processing fees.
- (5) Enrollment may be cancelled even after admission if false statements on application documents come to light.
 - (6) Depending on your performance in the entrance examination, you may not be assigned to your desired specialization, educational program or supervisor. Consider your other choice.
 - (7) Diplomas and transcripts submitted by applicants may be examined by a certification organization specified by YNU at the applicants' expense when YNU deems it necessary to have a third party authenticate them.
 - (8) Any changes related to the entrance examination will be notified to applicants along with announcements on the website of the Graduate School of Engineering Science.
 - (9) Always carry your admission ticket for examination on the day of examination.
 - (10) Applicants who miss their interviews will not be admitted.
 - (11) Switch off your mobile phones and other devices and put them in your bag before entering your examination room.
 - (12) Employees of public offices or companies need to obtain written approval of enrollment (free form) from their directors or representatives. Prepare such documents in advance of the enrollment procedures.
 - (13) The admission fee is not refunded after the enrollment procedure under any circumstances.
 - (14) Many students admitted to our graduate school make use of economic assistance programs, such as admission fee (excluding international students) and tuition waivers, and scholarship programs.

III Overview of Doctoral Programs

1. Purpose of Education and Research at our Graduate School

The Graduate School of Engineering Science at YNU aspire to serve as an international hub of practical science. The effort is led by the Graduate School of Engineering Science, which aims to foster globally competitive scientists and engineers who have sound ethics and enterprising spirits to learn beyond their areas of expertise. We hope to further strengthen and develop the manufacturing industry and other industries by nurturing people who are well-versed in both science and engineering.

The doctoral programs at the Graduate School of Engineering Science produce professionals who can conduct leading-edge research on the issues that they have identified and apply solutions that they have found based on broad perspectives. At the same time, they are expected to exercise great communication skills in the society to drive forward the development of science and industries. Graduates are expected to lead further innovation as creative and highly specialized professionals.

2. Description of Departments and Profile of Graduates

2.1 Department of Mechanical Engineering, Materials Science, and Ocean Engineering

In this department, education will be conducted in mechanical, material, naval architecture and ocean, and aerospace engineering based on analyses of physical phenomena from micro to macro levels. Research conducted in this department addresses: basic science technologies to comprehensively design advanced systems from micromachines to large structures; production and processing methods for the development of functions and structural materials that maintain the balance with the global environment by applying the mechanical properties of solid materials and theories on the origins of various properties; and systems for using marine space through microengineering for marine energy use and for designing mobile objects and structures. In this manner, the department produces globally-competitive, practical, and creative engineers and researchers who can be leaders in their area of research.

2.1.1 Specializations

The Department of Mechanical Engineering, Materials Science, and Ocean Engineering covers the following three specializations. The awarded degree and offered programs are listed next to each specialization.

- Mechanical Engineering: Doctor (Engineering), T-type Engineering Degree (TED) Program, or Pi-type Engineering Degree (PED) Program
- Materials Science Frontier: Doctor (Engineering), T-type Engineering Degree (TED) Program, or Pi-type Engineering Degree (PED) Program
- Systems Design for Ocean-Space: Doctor (Engineering), T-type Engineering Degree (TED) Program, or Pi-type Engineering Degree (PED) Program

2.1.2 Education Programs

Two different types of education programs are offered at the Department of Mechanical Engineering, Materials Science, and Ocean Engineering to obtain degrees in the specializations listed in the previous section.

- **T-type Engineering Degree (TED) Program (in Mechanical Engineering, Materials Science Frontier, and Systems Design for Ocean-Space)**

The TED program in mechanical engineering welcomes students with a Master's level expertise in mechanical engineering or related fields of aerospace engineering who seek to become creative researchers and engineers with the excellent ability to construct advanced machines and mechanical systems. The program in materials science frontier welcomes students with a Master's level expertise in material engineering and science, or related fields of aerospace engineering who are interested in advanced research and technologies related to material mechanics and processing, material strength and structure, material function and composition, or material physics and chemistry. The program in systems design for ocean-space welcomes students with a Master's level expertise in naval architecture and ocean engineering or related fields of aerospace engineering who are keen to apply advanced technologies for using marine space and for combining basic technologies.

- **Pi-type Engineering Degree (PED) Program (in Mechanical Engineering, Materials Science Frontier, and Systems Design for Ocean-Space)**

The PED program in Mechanical Engineering welcomes students with a Master's level expertise in mechanical engineering or related fields of aerospace engineering who seek to gain practical skills and work globally and independently as practitioners and researchers while addressing issues involving mechanical engineering. The program in Materials Science Frontier welcomes students with a Master's level expertise in material engineering and science or related fields of aerospace engineering who are interested in advanced and practical research and technologies involving material mechanics and processing, material strength and structure, material function and composition, or material physics and chemistry. The program in Systems Design for Ocean-Space welcomes students with a Master's level expertise in naval architecture and ocean engineering or related fields of aerospace engineering who are keen to engage in practical and technical challenges involved in the planning, construction, and operation of devices for using marine space.

2.2 Department of Chemistry and Life Science

Molecules and solid materials as aggregates of atoms, and organic materials as aggregates of molecules, exhibit very different functions depending on their electronic structures, types of atoms and molecules, and their arrangements. Therefore, the clarification of the interrelation between structures and exhibited functions is vital to material chemistry. The most crucial task for producing and using materials efficiently with minimum environmental load is to establish efficient production systems for new materials by effectively harnessing the chemical energy of materials and integrating a wide range of information. In order to tackle global problems related to food, life, medicine, and so forth, it is essential

to unravel and apply life phenomena. This department provides opportunities to develop molecules and materials that exhibit new functions, devise new processes for producing and using them, and unravel and apply life phenomena. In this manner, the department cultivates creative professionals who can identify challenges involving materials and life, and effectively address them with due consideration to the global environment.

2.2.1 Specializations

The Department of Chemistry and Life Science covers the following three specializations. The awarded degree and offered programs are listed next to each specialization.

- Chemistry: Doctor (Science), Professional Science Degree (PSD) Program
- Applied Chemistry: Doctor (Engineering), T-type Engineering Degree (TED) Program
- Chemistry Applications and Life Science: Doctor (Engineering), T-type Engineering Degree (TED) Program, or Pi-type Engineering Degree (PED) Program

2.2.2 Education Programs

Three different types of education programs are offered at the Department of Chemistry and Life Science to obtain degrees in the specializations listed in the previous section.

• **T-type Engineering Degree (TED) Program (in Applied Chemistry, and Chemistry Applications and Life Science)**

The program requires advanced knowledge in inorganic chemistry, analytical chemistry, physical chemistry, organic chemistry, and other essential fields related to materials, as well as in material engineering, energy chemistry, catalytic chemistry, polymer chemistry, biochemistry, chemical engineering, bioengineering, and so forth. Students will develop molecules and materials that produce new functions; develop processes for producing and using them; unravel and apply life phenomena; and identify challenges involving materials and life forms and effectively solve them with due consideration to the global environment. The program welcomes students who have both advanced research and development skills in chemistry, energy chemistry, bio and life science, and related fields, and the ability to make flexible and comprehensive judgments to address unknown problems based on their broad perspectives.

• **Pi-type Engineering Degree (PED) Program (in Chemistry Applications and Life Science)**

The program requires advanced knowledge in essential fields related to substances and materials, as well as material engineering, chemical engineering, bioengineering, biochemistry, and so forth. The program cultivates skills involved in the invention and manufacturing of advanced materials and in the advanced research and development of energy chemistry, and bio and life science. It also cultivates the ability to solve unknown problems by making flexible and comprehensive judgements based on broad perspectives and to integrate basic knowledge in the formation of applied technologies. The engineering education offered in this program is aimed at developing highly practical skills in chemical engineering, energy chemistry, material engineering, bio and life science, and related fields. Students are expected to integrate their knowledge, experience, technologies, and insights to set a new direction and lead future

industries.

• **Professional Science Degree (PSD) Program (in Chemistry)**

In this program, students study designing principles and synthetic methods of molecules and materials and learn about chemical phenomena and properties in order to develop advanced skills for making scientific research in the fields of chemistry, including inorganic chemistry, analytical chemistry, physical chemistry, organic chemistry, catalytic chemistry, polymer chemistry, electrochemistry, and biochemistry. The additional studies in material engineering, catalytic engineering, bioengineering, and application of chemistry and life sciences to engineering are intended to build their engineering basics in chemistry. The integrated style of education produces highly capable and globally-competitive professionals in the scientific community and industries who can conduct scientific research, as well as contribute to the development of crucial materials for the next generation based on an understanding of basic science in terms of physics.

2.3 Department of Mathematics, Physics, Electrical Engineering and Computer Science

Similar to the master's programs, the doctoral programs at the Department of Mathematics, Physics, Electrical Engineering and Computer Science requires broad familiarity and interdisciplinary knowledge in mathematical science, physics, and other basic sciences, as well as their engineering application. By engaging in the world's leading researches, these doctoral programs deepen the knowledge gained in the master's programs and help students take initiatives in the creation and development of science and industries in the fields of mathematical science, physics, applied physics, as well as electrical, electronic, communication, information, and medical information engineering. In this manner, the programs produce leading researchers and engineers who can creatively address challenges faced by the knowledge-based and information-driven society that is going through a radical change.

2.3.1 Specializations

The Department of Mathematics, Physics, Electrical Engineering and Computer Science covers the following five specializations. The awarded degree and offered programs are listed next to each specialization.

- Mathematical Sciences: Doctor (Science), Science Degree Program
- Physics: Doctor (Science), Professional Science Degree (PSD) Program
- Applied Physics: Doctor (Engineering), T-type Engineering Degree (TED) Program, or Pi-type Engineering Degree (PED) Program
- Information Systems: Doctor (Engineering), T-type Engineering Degree (TED) Program, or Pi-type Engineering Degree (PED) Program
- Electrical and Computer Engineering: Doctor (Engineering), T-type Engineering Degree (TED) Program, or Pi-type Engineering Degree (PED) Program

2.3.2 Education Programs

- **T-type Engineering Degree (TED) Program (in Applied Physics, Information Systems, and Electrical and Computer Engineering)**

The program welcomes students with advanced research and development skills based on their academic background in electrical and computer engineering, information systems, and applied physics, as well as a Master's level expertise in their areas of specialization. They are expected to set their own agenda and flexibly address unknown problems by making comprehensive judgments based on their broad perspectives. Expected qualities also include the ability to communicate their findings to the world and the passion to serve as pioneers for new research.

- **Pi-type Engineering Degree (PED) Program (in Applied Physics, Information Systems, and Electrical and Computer Engineering)**

The program welcomes students with the abovementioned academic background at a Master's level who aspire to further enhance their expertise in electrical, electronic, communication, and information engineering; learn how to write a thesis in a studio (workshop); and receive a PhD degree. The program also welcomes PhD candidates who want to write their thesis from the perspective of a socially-relevant practitioner.

- **Professional Science Degree (PSD) Program and Science Degree Program (in Physics and Mathematical Science)**

The programs welcome students with an academic background in physics or mathematics at a Master's level, advanced research and development skills, and the ability to communicate their findings to the world. The programs also welcome motivated students who are committed to offering logical solutions to new issues and challenges that they have identified themselves by applying physical or mathematical concepts, thereby leading the way on the new frontiers of research.

IV Graduate School of Engineering Science Specialization and research field of supervisors

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For details of each supervisors, refer to “Admissions Information” on the website of the Graduate School of Engineering Science, Yokohama National University (<https://www.fse.ynu.ac.jp/english/index.html>).

Department	Unit	Name	Title	Specialization (M : Master's program) (D : Doctoral program)	Research Field	Language Requirements	Type of Students Accepted	
							Doctoral	Master's
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	ARAKI Takuto	Professor	Mechanical Engineering(MD)	Thermo-fluid Dynamics, Mass and heat Transfer, Fuel Cells, Micro Electro Mechanical Systems	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	ISHII Kazuhiro	Professor	Mechanical Engineering(MD) and Aerospace Engineering(M)	Combustion Engineering, Chemical Propulsion	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	YU Qiang	Professor	Mechanical Engineering(MD)	Computational Mechanics, Strength of Materials	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	OZAKI Shingo	Professor	Mechanical Engineering(MD)	Constitutive Equation, Plasticity, Friction, Self-healing materials, Terramechanics	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	SATO Yasukazu	Professor	Mechanical Engineering(MD)	Mechatronics, Electromechanical Systems, Fluid Power Control, Power Transmission	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	SANADA Kazushi	Professor	Mechanical Engineering(MD)	Control Engineering	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	NISHINO Koichi	Professor	Mechanical Engineering(MD)	Turbulence, Flow Visualization and Measurement, Utilization of Digital Image Processing Technique	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	HYAKUTAKE Toru	Professor	Mechanical Engineering(MD)	Computational Fluid Dynamics, Biomechanics, Micro Nano Flow	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	MAEDA Yusuke	Professor	Mechanical Engineering(MD)	Robotics, Manufacturing systems engineering	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	MATSUI Jun	Professor	Mechanical Engineering(MD)	Internal Flow in Fluid Machinery . Computational Fluid Dynamics	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	MARUO Shoji	Professor	Mechanical Engineering(MD)	Ultrahigh-precision 3D printing, Micromachine, Micro Total Analysis System	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	OTA Hiroki	Associate Prof.	Mechanical Engineering(MD)	Micro/Nano fabrication, Sensor engineering, Soft material	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	KATO Ryu	Associate Prof.	Mechanical Engineering(MD)	Robotics, Medical welfare machine, Rehabilitation engineering, Brain machine interface	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	KITAMURA Keiichi	Associate Prof.	Mechanical Engineering(MD) and Aerospace Engineering(M)	Aerodynamics, Computational Fluid Dynamics, Hypersonic Flow, Multiphase Flow	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	SAKAI Seigo	Associate Prof.	Mechanical Engineering(MD)	Heat Transfer, Numerical Simulation, Radiative Exchange	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	SHINOZUKA Jun	Associate Prof.	Mechanical Engineering(MD)	Cutting, FEM, Dynamic Behavior of Material	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	TAKAO Yoshinori	Associate Prof.	Mechanical Engineering(MD) and Aerospace Engineering(M)	Electric Propulsion, Plasma Application	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Mechanical Engineering	FUCHIWAKI Ohmi	Associate Prof.	Mechanical Engineering(MD)	Micro mechanism, Micro manipulation, Actuator, Precise mobile robot	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Materials Science Frontier	UMEZAWA Osamu	Professor	Materials Science Frontier(MD)	Physical Metallurgy, Microstructural Design and Control, Deformation and Fracture	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Materials Science Frontier	NAKAO Wataru	Professor	Materials Science Frontier(MD)	Machine material/material mechanics, Inorganic material/physical properties, Structural/functional materials	Japanese or English	○	○

Department	Unit	Name	Title	Specialization (M: Master's program) (D: Doctoral program)	Research Field	Language Requirements	Type of Students Accepted	
							Doctoral	Master's
Mechanical Engineering, Materials Science, and Ocean Engineering	Materials Science Frontier	HASEGAWA Makoto	Professor	Materials Science Frontier(MD) and Aerospace Engineering(M)	Strength of Materials, Fracture Mechanics, Microstructure Control, Composites, Coatings	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Materials Science Frontier	HIROSAWA Shoichi	Professor	Materials Science Frontier(MD)	Structural Materials Design, Microstructural Control of Metals, Computational Materials Science	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Materials Science Frontier	MUKAI Kohki	Professor	Materials Science Frontier(MD)	Semiconductor Nanostructures, Quantum Optical Material, Optoelectronics Materials, Microfabrication of Metals	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Materials Science Frontier	OHTAKE Mitsuru	Associate Prof.	Materials Science Frontier(MD)	Nanomaterials, Crystal Growth, Magnetism	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Materials Science Frontier	OONO-HORI Naoko	Associate Prof.	Materials Science Frontier(MD)	Reactor Structural Materials, Extreme Materials, Microstructure Analysis	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Materials Science Frontier	NAKATSUGAWA Hiroshi	Associate Prof.	Materials Science Frontier(MD)	Functional Material Engineering, Solid State Physics, Thermoelectric Materials, First Principles Calculation	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Materials Science Frontier	MAENO Tomoyoshi	Associate Prof.	Materials Science Frontier(MD)	Manufacturing Processes, Forming Processes	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Systems Design for Ocean-Space	OKADA Tetsuo	Professor	Systems Design for Ocean-Space(MD)	Ship Structural Design, Structural Analysis	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Systems Design for Ocean-Space	KAWAMURA Yasumi	Professor	Systems Design for Ocean-Space(MD)	Structural Mechanics, Computer Aided Engineering, Structural Reliability	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Systems Design for Ocean-Space	NISHI Yoshiki	Professor	Systems Design for Ocean-Space(MD)	Marine Resource, Deepsea development, Seawater desalination	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Systems Design for Ocean-Space	MURAI Motohiko	Professor	Systems Design for Ocean-Space(MD)	Design of Ocean Structures, Hydroelastic Responses of Huge Floating Structures, Hydrodynamics, Ocean Environmental Engineering, Ocean energy	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Systems Design for Ocean-Space	TAKAGI Youhei	Associate Prof.	Systems Design for Ocean-Space(MD)	Computational Fluid Dynamics, Drag Reduction, Multiphase Flow	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Systems Design for Ocean-Space	HIGUCHI Takehiro	Associate Prof.	Systems Design for Ocean-Space(MD) and Aerospace Engineering(M)	Attitude Control / Guidance and Control of Aerospace Vehicles, Aerospace Systems Design, Optimal Control, Unmanned Aerial Vehicles	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Systems Design for Ocean-Space	HIRAKAWA Yoshiaki	Associate Prof.	Systems Design for Ocean-Space(MD)	Ship Motion, Ocean Wave, Experiments in Towing Tank and Actual Sea	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Systems Design for Ocean-Space	MITSUYUKI Taiga	Associate Prof.	Systems Design for Ocean-Space(MD)	Complex Systems Design, Systems Engineering	Japanese or English	○	○
Mechanical Engineering, Materials Science, and Ocean Engineering	Systems Design for Ocean-Space	MIYAJI Koji	Associate Prof.	Systems Design for Ocean-Space(MD) and Aerospace Engineering(M)	High Speed Aerodynamics, Computational Fluid Dynamics, Aircraft Design	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	ATOBE Mahito	Professor	Chemistry(MD), Applied Chemistry(D), and Energy and Sustainable Chemistry(M)	Organic Electrochemistry, Electrochemical Synthesis, Electrochemical Polymerization	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	OYAMA Toshiyuki	Professor	Chemistry(MD) and Applied Chemistry(MD)	Polymer Chemistry, Functional Polymers, Photosensitive Polymers, Thermosetting resins	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	KUBOTA Yoshihiro	Professor	Chemistry(MD), Applied Chemistry(D), and Energy and Sustainable Chemistry(M)	Catalytic Chemistry, Zeolite Science, Environmentally Benign Synthesis of Fine Chemicals	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	KOJIMA Chojiro	Professor	Chemistry(MD) and Applied Chemistry(MD)	Structural Biology, Structural Chemistry, Biological Chemistry, Chemical Biology, NMR	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	TATAMI Junichi	Professor	Chemistry(MD) and Applied Chemistry(MD)	Ceramics, Material Science, Nano-Materials, Porous Material, Fracture Mechanics	Japanese or English	○	○

Department	Unit	Name	Title	Specialization (M: Master's program) (D: Doctoral program)	Research Field	Language Requirements	Type of Students Accepted	
							Doctoral	Master's
Chemistry and Life Science	Advanced Chemistry	DOKKO Kaoru	Professor	Chemistry(MD), Applied Chemistry(D), and Energy and Sustainable Chemistry(M)	Electrochemistry, Inorganic Material	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	MOTOKURA Ken	Professor	Chemistry(MD), Applied Chemistry(D), and Energy and Sustainable Chemistry(M)	Concerted Catalysis, Supported Catalyst, Chemical Conversion of CO ₂	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	YAMAGUCHI Yoshitaka	Professor	Chemistry(MD) and Applied Chemistry(MD)	Coordination Chemistry, Organometallic Chemistry, Molecular Catalysts	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	YABUUCHI Naoaki	Professor	Chemistry(MD), Applied Chemistry(D), and Energy and Sustainable Chemistry(M)	Solid State Chemistry, Materials Chemistry	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	IJIMA Motoyuki	Associate Prof.	Chemistry(MD) and Applied Chemistry(MD)	Particle Technology, Materials Synthesis and Processing, Surface Modification, Colloids and Dispersion, Composites	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	ITO Suguru	Associate Prof.	Chemistry(MD) and Applied Chemistry(MD)	Organic chemistry, Functional solid state chemistry, Synthetic chemistry, Analytical chemistry, Nanomaterials chemistry	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	INAGAKI Satoshi	Associate Prof.	Chemistry(MD), Applied Chemistry(D), and Energy and Sustainable Chemistry(M)	Catalytic Chemistry, Zeolite Science, Environmentally Benign Synthesis of Fine Chemicals	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	UENO Kazuhide	Associate Prof.	Chemistry(MD), Applied Chemistry(D), and Energy and Sustainable Chemistry(M)	Electrochemistry, Electrolyte materials	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	UBUKATA Takashi	Associate Prof.	Chemistry(MD) and Applied Chemistry(MD)	Photo Functional Chemistry, Photochromism	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	KAWAMURA Izuru	Associate Prof.	Chemistry(MD) and Applied Chemistry(MD)	Structural Biology, Biophysical Chemistry	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	KIKUCHI Azusa	Associate Prof.	Chemistry(MD) and Applied Chemistry(MD)	Photophysics and Photochemistry, Photochromism, Organic UV Absorber	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	KEBUKAWA Yoko	Associate Prof.	Chemistry(MD) and Applied Chemistry(MD)	Cosmochemistry, Analytical Chemistry, Astrobiology	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	GOTO Hiroaki	Associate Prof.	Chemistry(MD) and Applied Chemistry(MD)	Organic Synthesis, Physical Organic Chemistry, Molecular Design	Japanese or English	○	○
Chemistry and Life Science	Advanced Chemistry	SAKOMURA Masaru	Lecturer	Chemistry(MD) and Applied Chemistry(MD)	Physical Chemistry, Surface Science	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	OKAZAKI Shinji	Professor	Chemistry Applications and Life Science(M【PED only】 D), and Energy and Sustainable Chemistry(M)	Sensor Engineering, Corrosion Engineering, Continuing Engineering Education	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	KANAI Toshimitsu	Professor	Chemistry Applications and Life Science(MD)	Optical Materials, Colloid Science, Microfluidics	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	KURIHARA Yasuyuki	Professor	Chemistry Applications and Life Science(MD)	Molecular Biology, Mouse Genetics, Germ Cell Biology	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	TAKAHASHI Koji	Professor	Chemistry Applications and Life Science(MD)	Strength of Materials, Materials Science and Engineering	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	TAKEDA Minoru	Professor	Chemistry Applications and Life Science(MD)	Microorganisms, Enzymes, Glycoconjugates	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	FUKUDA Junji	Professor	Chemistry Applications and Life Science(MD)	Tissue Engineering and Regenerative Medicine	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	MITSUSHIMA Shigenori	Professor	Chemistry Applications and Life Science(M【PED only】 D), and Energy and Sustainable Chemistry(M)	Applied Electrochemistry	Japanese or English	○	○

Department	Unit	Name	Title	Specialization (M: Master's program) (D: Doctoral program)	Research Field	Language Requirements	Type of Students Accepted	
							Doctoral	Master's
Chemistry and Life Science	Chemistry Applications and Life Science	YOSHITAKE Hideaki	Professor	Chemistry Applications and Life Science(M【PED only】 D), and Energy and Sustainable Chemistry(M)	Environmental Physical Chemistry, Materials Chemistry	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	IJIMA Kazutoshi	Associate Prof.	Chemistry Applications and Life Science(MD)	Biofunctional Chemistry, Biomedical Engineering, Biomaterials, Regenerative Medicine	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	KURODA Yoshiyuki	Associate Prof.	Chemistry Applications and Life Science(M【PED only】 D), and Energy and Sustainable Chemistry(M)	Inorganic Synthetic Chemistry, Energy Materials	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	SUZUKI Atsushi	Associate Prof.	Chemistry Applications and Life Science(MD)	Developmental Biology, Biochemistry, Mouse Genetics	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	NAKAMURA Kazuho	Associate Prof.	Chemistry Applications and Life Science(MD)	Membrane separation, Separation engineering, Environmental chemical engineering	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	NITTAMI Tadashi	Associate Prof.	Chemistry Applications and Life Science(MD)	Biochemical Engineering, Environmental Engineering, Microbiology	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	MATSUZAWA Koichi	Associate Prof.	Chemistry Applications and Life Science(M【PED only】 D), and Energy and Sustainable Chemistry(M)	Applied Electrochemistry, Material of Energy Conversion	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	MISUMI Ryuta	Associate Prof.	Chemistry Applications and Life Science(MD)	Fluid Mixing and Agitation, Crystallization, Computational Fluid Dynamics, Transport Phenomena	Japanese or English	○	○
Chemistry and Life Science	Chemistry Applications and Life Science	AIHARA Masahiko	Lecturer	Chemistry Applications and Life Science(MD)	Chemical Energy Engineering, Chemical Reaction Engineering, Membrane Separation, Green Hydrogen	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Mathematical Sciences	UEKI Seiichiro	Professor	Mathematical Sciences(MD)	analytic function spaces and operators	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Mathematical Sciences	KAJIWARA Takeshi	Professor	Mathematical Sciences(MD)	Algebraic and Arithmetic Geometry	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Mathematical Sciences	KUROKI Manabu	Professor	Mathematical Sciences(MD)	Statistical Causal Inference	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Mathematical Sciences	TAKEI Masato	Associate Prof.	Mathematical Sciences(MD)	Spatial Stochastic Models, Stochastic Process	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Mathematical Sciences	HONDA Atsufumi	Associate Prof.	Mathematical Sciences(MD)	Differential Geometry, Submanifold Theory, Singularity Theory	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	ICHIYANAGI Yuko	Professor	Physics(MD)	Nanoscope Magnetism, Nanomedicine	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	KATAYAMA Ikufumi	Professor	Physics(MD)	Terahertz and Ultrafast Spectroscopy	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	HONG Feng-Lei	Professor	Physics(MD)	Precision Spectroscopy, Quantum Measurement	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	KOSAKA Hideo	Professor	Physics(MD)	Quantum Computer, Quantum Communication, Quantum Information Physics	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	SATO Jo	Professor	Physics(MD)	Elementary Particle Physics (Theory)	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	SEKIYA Takao	Professor	Physics(MD)	Solid State Physics, High Pressure Physics	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	MINAMINO Akihiro	Professor	Physics(MD)	Neutrino Physics, Particle Physics	Japanese or English	○	○

Department	Unit	Name	Title	Specialization (M : Master's program) (D : Doctoral program)	Research Field	Language Requirements	Type of Students Accepted	
							Doctoral	Master's
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	UEHARA Masatomo	Associate Prof.	Physics(MD)	Solid State Physics, Materials Science	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	OHNO Shinya	Associate Prof.	Physics(MD)	Surface Physics	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	KATAYOSE Yusaku	Associate Prof.	Physics(MD)	Cosmic Ray Physics	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	SHIMAZU Yoshihiro	Associate Prof.	Physics(MD)	Experimental Solid State Physics	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	SHUDO Ken-ichi	Associate Prof.	Physics(MD)	Surface Physics	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	SHIRASAKI Ryoen	Associate Prof.	Physics(MD)	Condensed Matter Physics, Complex Systems	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	HORIKIRI Tomoyuki	Associate Prof.	Physics(MD)	Quantum Information, Quantum Optics	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Physics	RAEBIGER Hannes	Associate Prof.	Physics(MD)	Physics, Quantum chemistry, Material Science	English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	AKATSU Kan	Professor	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Electric Machine design, analysis, control by using Power Electronics Technique	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	ARAKAWA Taro	Professor	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Optoelectronics, Quantum Nano Structures, Semiconductor Photonic Devices, Optical Bio/Gas Sensors	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	ICHIGE Koichi	Professor	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Digital Signal Processing, Image Processing, Wireless Communication	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	OCHIAI Hideki	Professor	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Wireless Communications, Mobile Network, Channel Coding, Communication Theory	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	SEKIGUCHI Kouji	Professor	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Spintronics, Magnonics, Energy harvesting	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	TAKEMURA Yasushi	Professor	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Magnetics for Biomedical Applications, Magnetic Sensors	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	BABA Toshihiko	Professor	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Optoelectronics, Nano-photonics, Silicon photonics, IoT sensor	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	HAMAGAMI Tomoki	Professor	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Intelligent Systems, Machine Learning	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	FUJIMOTO Yasutaka	Professor	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Manufacturing Automation, Discrete Event Systems, Motion Control, Robotics, Electrical Machinery	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	YOSHIKAWA Nobuyuki	Professor	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Integrated Circuit, Electronics Devices, Superconductivity Electronics, Quantum Engineering	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	OYA Takahide	Associate Prof.	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Nanotechnology, Carbon Nanotube, Nonlinear system	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	KUGA Nobuhiro	Associate Prof.	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Microwave Engineering and measurement, Antenna Engineering	Japanese or English	○	○
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	SHIMONO Tomoyuki	Associate Prof.	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Motion control, Haptics, Mechatronics, Robotics, Electrical Machinery	Japanese or English	○	○

Department	Unit	Name	Title	Specialization (M: Master's program) (D: Doctoral program)	Research Field	Language Requirements	Type of Students Accepted	
							Doctoral	Master's
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	SUGIMOTO Chika	Associate Prof.	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Perceptual Information Processing, Human Sensing, Medical ICT	Japanese or English	<input type="radio"/>	<input type="radio"/>
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	TSUJI Takao	Associate Prof.	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Power system engineering, Smartgrid, Renewable energy source	Japanese or English	<input type="radio"/>	<input type="radio"/>
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	NAKATA Masaya	Associate Prof.	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Soft computing, Optimization, Data mining	Japanese or English	<input type="radio"/>	<input type="radio"/>
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	NISHIJIMA Yoshiaki	Associate Prof.	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Plasmonics, micro/nanophotonics, Nano Photonics Sensors, Photo-Thermal Energy Conversions	Japanese or English	<input type="radio"/>	<input type="radio"/>
Mathematics, Physics, Electrical Engineering and Computer Science	Electrical and Computer Engineering	YAMANASHI Yuki	Associate Prof.	Applied Physics(MD), Information Systems(MD), and Electrical and Computer Engineering(MD)	Electron/electric material engineering, Electronic device/electronic equipment	Japanese or English	<input type="radio"/>	<input type="radio"/>

V. Education under special exception regarding educational systems pursuant to Article 14 of the Standards for Establishment of Graduate Schools (Special exception for graduate education for professional engineers and researchers)

In recent years, professional engineers, researchers, and the like are increasingly feeling the need for continued education or refresher training, as well as doctoral degrees offered by graduate schools. Unfortunately, their opportunities to pursue graduate education based on standard systems are limited because they need to leave their work at least for 2 years to complete master's programs and 3 years to complete doctoral programs.

Meanwhile, Article 14 of the Standards for Establishment of Graduate Schools (Ordinance by the MEXT) stipulates that "education can be conducted by organizing courses and research guidance at night, during specific hours or periods, or in other appropriate manners if a need for special arrangements in graduate programs is recognized." According to the special consideration for studies by professionals in this article, special exceptions in educational systems have been put in place for professional engineers and researchers pursuing studies at our graduate schools.

The rules are as follows (professionals applying to the PED Program should refer to items marked with asterisks (*)):

- (1) In principle, students must study on campus full time for one year as part of a 2-year master's program and a 3-year doctoral program.
- (2) Special courses are organized during evenings (5:50 p.m.–7:20 p.m.) on weekdays, although students may attend courses offered during any time period including the day.
- (3) During the one-year period of full-time study in a master's program and focusing on master's research, a student should plan their program so that the necessary credits can be acquired in evening courses (5:50 p.m.–7:20 p.m.). During this period, students should take courses during the day only when they are not offered in the evening.
- (4) When preparing to enroll, seek guidance from your supervisor and make a plan to study for 2 years in a master's program and 3 years in a doctoral program.
- (5) If it is impossible to complete your field of study in the defined course term due to your work, you should consider an extended plan with 3–4 years of master's study and 4–5 years of doctoral study.
- (6) Gain approval each time you change your study plan by using the special exception.

By applying the abovementioned special exception, our Graduate School of Engineering Science makes it possible for professionals to limit the period they have to leave their jobs to one year. In this manner, we seek to provide opportunities for engineers and other professionals who have found it difficult to pursue continued or refresher training through graduate studies in normal education systems. We flexibly approve research topics including practical research by companies as long as they are deemed appropriate for master's and doctoral research. This is because another purpose of the special exception is to contribute to the advancement of new science and technologies by stimulating exchange between our university and industry through admitted

professionals.

* PED Program Special exception for professionals in doctoral programs

- (1) Follow the instructions from your supervisor to make a plan that covers the subjects that satisfy the completion requirements of your selected module. Then, seek guidance on research at your studio.
- (2) Courses offered according to the special exception are organized during weekday evenings (5:50 p.m.–7:20 p.m.) or on weekends (7.5 courses). But students can attend courses offered during the day or any other time period.
- (3) Gain approval each time you change your study plan by using the special exception.

VI. Students with extended enrollment status

Students with extended enrollment status are those who were approved to complete their studies according to a certain plan for a period longer than the standard duration for completing master's programs (2 years) and doctoral programs (3 years), in consideration of their employment and other circumstances.

Unlike other students, students who are granted extended enrollment status can complete their studies, regardless of the duration, for the same tuition charged for the standard duration for completing master's programs (2 years) and doctoral programs (3 years).

1. Eligibility

Eligibility for the extended enrollment status is granted to successful applicants who pass a special screening of professionals who intend to remain employed after admission.

2. Application procedure

Use the following procedure to apply for extended enrollment status. Beware that failure to perform any of the following steps leads to disqualification from the review.

(1) Before application

State your intention to apply for the extended enrollment status when you contact your desired supervisor.

(2) During application

Select the check box for extended enrollment status on your application for admission.

(3) During admission procedures

In order to apply for extended enrollment status, submit documents (i) and (ii) during your admission procedure.

(i) Application for extended enrollment status (Annexed Form 1 to be provided along with other documents for the admission procedures only to those who properly performed steps (1) and (2))

(ii) Employment certificate or another document to prove your current employment

(iii) Submit these documents **between Friday, September 9–Thursday, September 15, 2022 (Admission in October) or between Wednesday, March 8 and Tuesday, March 14, 2023 (Admission in April) (no exceptions)** along with other admission documents to the Graduate School of Engineering Science Section.

3. Decision on status

Application documents are reviewed to make a decision on the status applied for. The applicant is notified of the decision in mid- October (Admission in October) or mid-April (Admission in April).

4. Enrollment period

Students with extended enrollment status may study at master's programs for more than 2 years up to 4 years and at doctoral programs for more than 3 years up to 6 years.

Studies can be completed every March, June, September, and December. Specify the planned month and year for completing your studies on your application for extended enrollment status.

5. Annual tuition

Annual tuition for students with extended enrollment status is calculated by multiplying the standard annual tuition by the standard number of years for completing a program, then dividing it by the number of years of enrollment.

(Example calculation 1) Three years of master's study by an applicant granted with the extended enrollment status

$$\begin{array}{ccccccc} 535,800 \text{ yen} & \times & 2 \text{ years} & / & 3 \text{ years} & = & 357,200 \text{ yen} \\ \text{(Standard annual tuition)} & & \text{(Standard duration of master's programs)} & & \text{(Approved period of study)} & & \text{(Annual tuition for students with extended enrollment status)} \end{array}$$

(Example calculation 2) Five years of doctoral study by an applicant granted with the extended enrollment status

$$\begin{array}{ccccccc} 535,800 \text{ yen} & \times & 3 \text{ years} & / & 5 \text{ years} & = & 321,480 \text{ yen} \\ \text{(Standard annual tuition)} & & \text{(Standard duration of doctoral programs)} & & \text{(Approved period of study)} & & \text{(Annual tuition for students with extended enrollment status)} \end{array}$$

6. Shortening enrollment period

Students with extended enrollment status can shorten their enrollment period.

In order to shorten your enrollment period, submit an "Application for shortening the enrollment period of a student with extended enrollment status" and gain the necessary approval.

* Ask for more details at the office.

7. Extending enrollment period

Enrollment periods can be further extended for students with extended enrollment status under special circumstances.

In order to extend your enrollment period, submit an "Application for extending the enrollment period of a student with extended enrollment status" and gain the necessary approval. Note that the enrollment period can only be extended once.

No one can be enrolled for more than 4 years in a master's program and more than 6 years in a doctoral program. After the extension of enrollment period, the annual tuition is calculated by dividing the remaining amount of tuition after subtracting the paid tuition from the entire standard period of studies (2 years for master's programs and 3 years for doctoral programs).

8. Other matters

If you wish to apply for extended enrollment status, be sure to consult closely with your desired supervisor before applying for admission.

VII. Yokohama National University Tuition Waiver Program for Privately Financed International Students

(1) Outline

The Yokohama National University (YNU) Tuition Waiver Program for Privately Financed International Students is aimed at promoting the acceptance of academically excellent international students and providing financial support after their admission to YNU. Screening is solely based on academic performance, and high-ranked applicants will be entitled to a 100%, 50%, or 30% exemption from tuition fees according to their academic results. As for doctoral programs, applicants will be entitled to a 100% or 50% exemption from tuition fees.

(2) Eligibility

Privately financed international students who apply for entrance examinations designated by YNU for regular curricula offered by undergraduate colleges and graduate schools at YNU and have or are scheduled to obtain the status of residence as “Student” required by Japanese law (“Immigration Control and Refugee Recognition Act”) are eligible for the program.

NB: International students sponsored or dispatched by their governments, as well as privately financed international students aided by JICA, World Bank, foreign governments, and other institutions for their tuition fees, are not eligible for the program. (The recipients of Monbukagakusho Honors Scholarship for Privately-Financed International Students are eligible for the program.)

(3) Evaluation and screening

Screening will be held based on results of entrance examinations. As for undergraduate and master’s programs, the top 50% of privately financed international students at each undergraduate college or graduate school will be entitled to the program. More specifically, the top 10% of students will be given a 100% exemption from tuition fees; the following 20% of students, a 50% exemption; and the other 20% of students, a 30% exemption. (Please note, however, that even those who are eligible may not be entitled to an exemption, as the quota given to each graduate school is limited.) As for doctoral programs, the top 50% of students will receive a 100% exemption from tuition fees; the remaining students, a 50% exemption.

(4) Application procedure

Those who wish to receive the waiver must download the “Application Form/ Expense Plan Form” from the website below, and submit it to the relevant college or graduate school when applying for admission.

<https://www.ynu.ac.jp/english/student/tuition/waiver/>

(5) Notification of the result and necessary procedures

Applicants will receive notification of the result along with the announcement of entrance examination results. Those selected as prospective recipients must complete the predetermined procedures to be officially judged as recipients of the program. The notification of entitlement (announcement of results) will be provided on a semester basis via the Student Information System.

(6) Remark

The exemption period is for two consecutive semesters after admission to YNU. Following that, the University will review applicants' qualifications, as well as percentages of exemption from tuition fees, for each semester based on their academic performance. Those who wish to apply to receive the tuition waiver program for their second and subsequent years must submit the designated documents by the due date. Details will be announced around August 2023 (for admission in October 2022) or February 2024 (for admission in April 2023) on the YNU Global Promotion Division's website.

* No entry required

Examinee's number *

Date : Day Month, Year

Detailed Statement of Application Documents (Eligibility Assessment)

Doctoral Program at Graduate School of Engineering Science, Yokohama National University

Name _____

Unit _____

Specialization _____

Submit this statement as an attachment along with your application documents. Enclose the necessary documents and put a circle in each corresponding check box.

(Check box)

出願書類	書式	注意事項	General		Professional	
			Eligibility 6,7	Eligibility 8	Eligibility 1-4	Eligibility 5, 6
Application for certificate of eligibility	10	Print out the form after downloading it from the website of the Graduate School of Engineering Science.				
Application for certificate of eligibility	11	Print out the form after downloading it from the website of the Graduate School of Engineering Science.				
Application for certificate of eligibility	12	Print out the form after downloading it from the website of the Graduate School of Engineering Science.				
Eligibility Accreditation Record	13	Print out the form after downloading it from the website of the Graduate School of Engineering Science.				
Record of Research Achievements	16	Print out the form after downloading it from the website of the Graduate School of Engineering Science.				
(Desired) Research Plan	17	Print out the form after downloading it from the website of the Graduate School of Engineering Science.				
Certificate of (expected) graduation or enrollment period from the most recent educational level	-	To be prepared by the president or dean of the school where the applicant was or is enrolled.				
Transcript from the most recently completed educational level	-	To be prepared by the president or dean of the school where the applicant was or is enrolled.				
Approval of examination and recommendation letter	-	[Applicant with an employer] To be prepared in any format by the applicant's supervisor at work.				
Certificate of research or professional assignments	-	[Applicant with work experience] To be prepared in any format.				
A size-L3 return envelope	-	Write the recipient's name and address on the envelope and affix stamps (354 yen). Remember that the recipient must be in Japan.				

* No entry required

Examinee' s number *

Date : Day Month, Year

Detailed Statement of Application Documents

Doctoral Program at Graduate School of Engineering Science, Yokohama National University

Name _____

Unit _____

Specialization _____

Educational program _____

Submit this statement as an attachment along with your application documents. Enclose the necessary documents and put a circle in each corresponding check box.

(Check box)

Application document	Form	Note	International student	
			Written exam	Professional
Application for admission	1-1	Print out the form after downloading it from YNU Web Application System.		
Photo	-	Attach it to your application for admission.		
Certificate of (expected) completion	-	To be prepared by the president or dean of the graduating (enrolled) school. Any certificate written in a language other than Japanese or English must be accompanied by a Japanese or English translation.		
Certificate of degree	-	The degree obtained must be stated on the certificate. If a copy of a diploma is used as a substitute, the original must be presented at the Graduate School of Engineering Science Section. This certificate is not required from an applicant claiming Eligibility (1). Any certificate written in a language other than Japanese or English must be accompanied by a Japanese or English translation.		
Transcript	-	To be prepared by the president or dean of the graduating (enrolled) school. Any certificate written in a language other than Japanese or English must be accompanied by a Japanese or English translation.		
Copy of certificate of eligibility	-	(Only applicants who have passed an eligibility assessment.) The certificate of eligibility is enclosed along with the result of the eligibility assessment.		
Certificate of resident status	-	Foreigners living in Japan should submit copies of both sides of their residence cards. Other foreigners should submit a copy of their passport.		
Curriculum Vitae	19-1	Print out the form after downloading it from YNU Web Application System. This form is not required from an applicant claiming Eligibility (1).		
Provisional Acceptance Letter	19-2	Print out the form after downloading it from the website of the Graduate School of Engineering Science. Obtain a signature from the prospective supervisor.		
Master's thesis or another thesis, and abstract	-	Submit your master's thesis or another thesis (In the case of Special Screening of Professionals, thesis showing research results so far) as a substitute (1 copy), and an abstract about 2,000 Japanese characters or 500 English words long (1 copy). Applicants expecting to complete master's programs are requested to provide a summary of their research project and the progress made in about 2,000 Japanese characters.		
Record of Research Achievements	16	Print out the form after downloading it from the website of the Graduate School of Engineering Science . List your published papers and research achievements (attach supplemental material if possible).		/
(Desired) Research Plan	17	Print out the form after downloading it from the website of the Graduate School of Engineering Science .		/
Government sponsorship certificate	-	(Submit only for Japanese government-financed (MEXT) international students) No copies are accepted.		
Tuition Waivers for Private-expense international students		Please see VII Please submit only Tuition Waivers applicants.		
Application form				

* Students who have passed an eligibility assessment do not have to resubmit the documents that were submitted for that application.

CAMPUS MAP



YNU YOKOHAMA National University

ADMINISTRATION BUREAUS

- N1** ① Delivered Goods Acceptance and Inspection Center
 - N2** ① Administration Bureau East Annex
Admissions Division (1F)
 - ② Administration Bureau
 - ③ Administration Bureau West Annex
 - ④ Office Garage
 - S1** ① Security Officers' Station
 - S5** ① Student Center
- 1F: Center for Health Service Science, Navi Port
2F: Student Support Division, Educational Affairs Division,
Student Advisory Service, International Education Division
3F: Career Support Room, Harassment Consultation Office
IFGS Office

ADMINISTRATIVE OFFICES FOR GRADUATE SCHOOLS & UNDERGRADUATE COLLEGES

- N3** ④ Research Bldg.
College of Business Admin / Graduate School of International Social Sciences
- N4** ① Research Bldg.
College of Economics
- N8** ④ Administration
College of Engineering Science / Graduate School of Engineering Science
- S3** ③ Administration
College of Education / Graduate School of Education
- S5** ⑥ Engineering Science Lab.
College of Urban Sciences / Graduate School of Urban Innovation
- S7** ⑤ Environment and Information Sciences 1
Graduate School of Environment and Information Sciences

COMMON FACILITIES FOR RESEARCH AND EDUCATION

- N2** ③ Gender Equality Section
- ③ Center for Economic Growth and Strategy
- N4** ① Global-Local Education and Research Center
- N7** ② Cross-Faculty Research Bldg.B
⑤ Cross-Faculty Research Bldg.A
- N8** ② Instrumental Analysis Center
- N9** ② Research Initiatives and Promotion Organization,
Cooperative Research and Development Center
- S1** ② Education and Culture Hall
- ③ International Student Center
- S5** ② Annex Bldg. of Information Technology Service
Center, Admission and Education Center,
Graduate School Education Center
- ③ Center for Risk Management and Safety Sciences
- ④ Information Technology Service Center
- S6** ② Cross-Faculty Research Bldg.D
④ Cross-Faculty Research Bldg.C
- S7** ④ Institute of Advanced Sciences
- S8** ① Facility for RI Research and Education
- S9** ① Incubation Facility

WELFARE FACILITIES

- N10** ④ S-Garden (Cafeteria, Convenience Store)
- ⑤ Cafeteria 2, COOP
- S1** ④ Cafeteria 1
- ⑤ University Hall, COOP (HQ)

STUDENT SPORTS AND RECREATION FACILITIES

- S0** ① Student Club House: Sports Club
- ② Control Office and Sports Facilities
- S1** ⑥ Student Activities Facilities
- ⑦ Gymnasium
- ⑧ Archery Target Range

LIBRARIES

- S3** ⑥ Central Library
- S7** ③ Science and Technology Library



MONITORING CENTERS

- N7** ① Energy Center: General Machine Plant
- N9** ① Wastewater Treatment Facility

CLASSROOM BUILDINGS OF GRADUATE SCHOOLS & UNDERGRADUATE COLLEGES

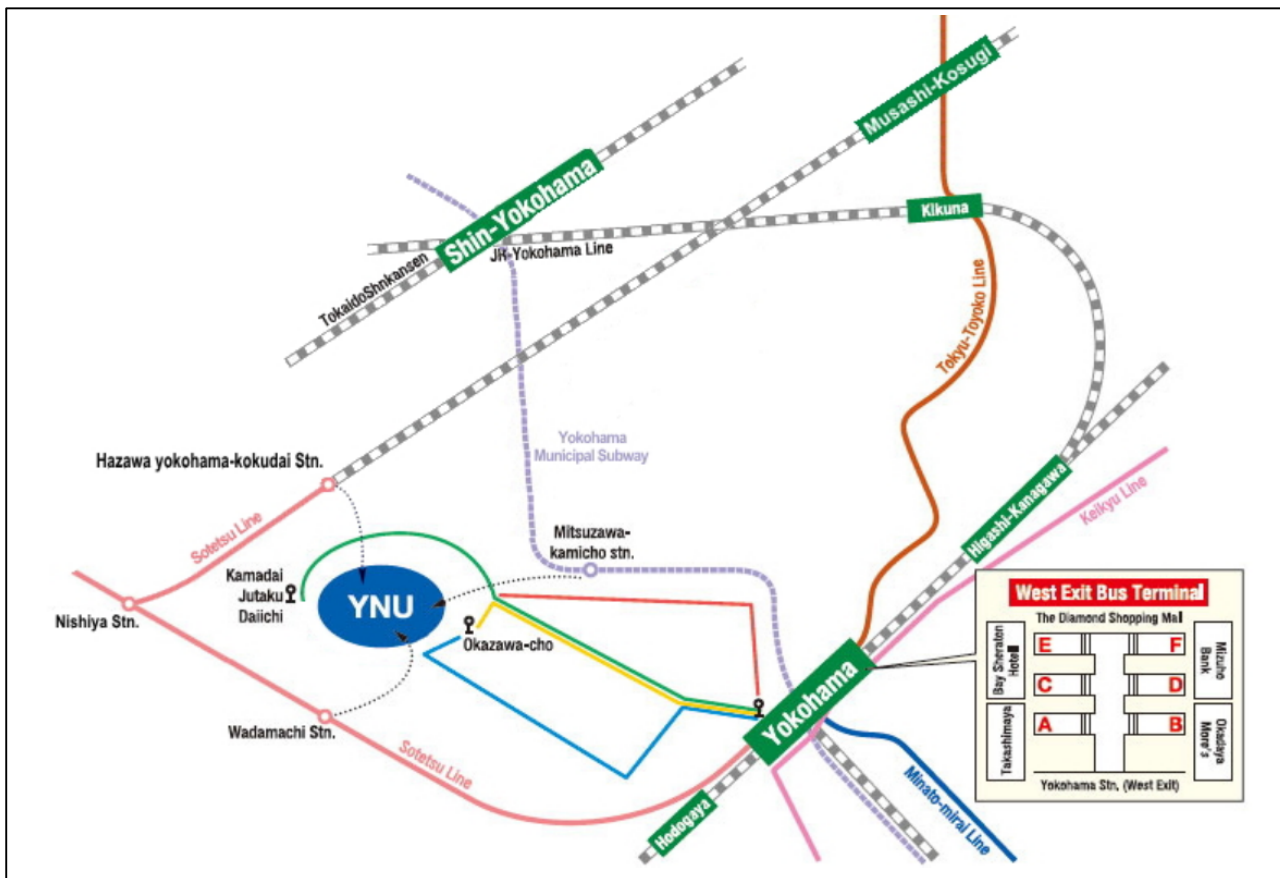
- N3** ① Business Administration Research Bldg.
② International Graduate School of Social Sciences
③ Lecture Hall 2 (Bus. Admin)
⑤ Lecture Hall 1 (Bus. Admin)
- N4** ② Lecture Hall 1 (Econ)
③ Lecture Hall 2 (Econ)
④ New Research Bldg. (Econ)
⑤ Law Bldg.
- N5** ① Structure Lab. (Architecture and Building Science)
② Materials and Environment Testing Lab.
③ Architecture and Building Science Bldg.
- N6** ① Electrical and Computer Engineering Bldg. 2
② Electrical and Computer Engineering Bldg.

- N6** ③ Voltage Room
④ Mechanical Engineering Bldg. 2
⑤ Mechanical Engineering and Materials Science Bldg.
⑥ Materials Science and Engineering Lab.
- N7** ③ High Voltage Research Lab.
④ Green Hydrogen Research Lab.
⑥ Machine Shop A
⑦ Machine Shop B
⑨ Mechanical Engineering Lab.
- N8** ① Low Temperature Engineering Research Lab.
③ Energy Engineering Bldg.
⑤ Chemical Engineering and Safety Engineering Bldg.
⑥ Hazardous Materials Inhouse Storage
- N10** ① Naval Architecture and Ocean Engineering Bldg. A
② Ship Model and Seakeeping Basin
③ Naval Architecture and Ocean Engineering Bldg. B
- S2** ① Lecture Hall (Us)
② Lecture Hall 7 (Ed)
③ Education Design Center
- S3** ① Lecture Hall 6 (Ed)
② Research Bldg.1 (Ed)

- S3** ④ Research Bldg.2 (Ed)
⑤ Annex to Faculty of Education Bldg. (Research)
- S4** ① Music
② Fine Arts
③ Research Bldg.3 (Ed)
- S5** ③ Science Research Bldg.
⑤ Lecture Hall A (Eng)
⑥ Engineering Science Lab.
⑦ Lecture Hall A (107) (Eng)
⑧ Lecture Hall B (Eng)
⑨ Lecture Hall C (Eng)
- S6** ① Environment and Information Sciences 4
③ Environment and Information Sciences 3
- S7** ① Science and Engineering Lab. for Graduate School
② Bioengineering Computer Engineering Lab.
⑥ Chemistry Bldg.
- S8** ② Structure Lab. (Civil Engineering)
③ Civil Engineering Bldg.
④ Hydraulic Lab.
- S9** ① General Research Bldg. S, E
① General Research Bldg. W

ACCESS

How to reach YNU from Yokohama Station

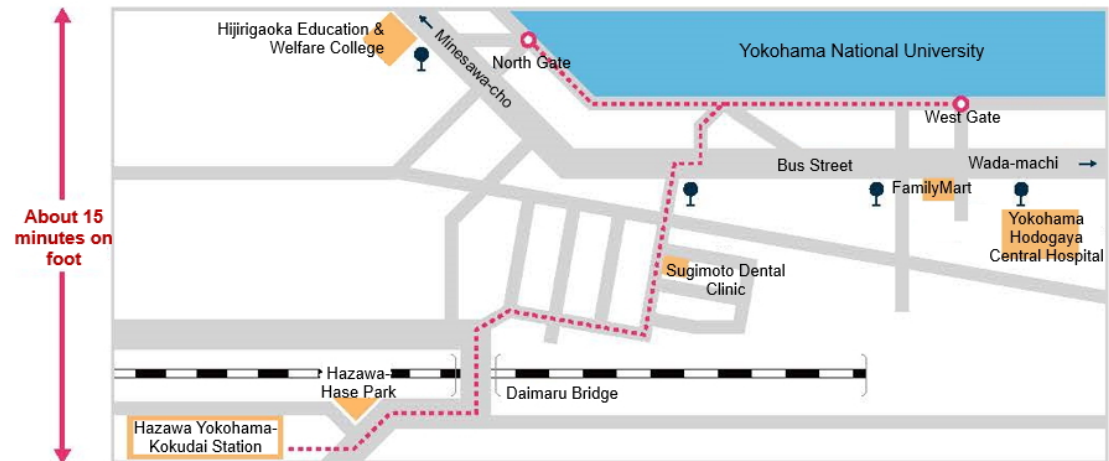


* For details of Transportation Guide, please see the following URL.

<https://www.ynu.ac.jp/english/about/access/access/>

Train: Access from Hazawa Yokohama-Kokudai Station (West Gate / North Gate)

○About 15 minutes on foot from Hazawa Yokohama-Kokudai Station



Exit Hazawa Yokohama-Kokudai Station, walk about 100 meters along the sidewalk along the Second Ring Expressway frontage road, and turn left.

Cross the crosswalk in front of Hazawa-Hase Park and walk along the right sidewalk.

Go on the right side of Daimaru Bridge. At the end of the bridge, turn right.

Go straight until you reach the end of the road, turn left to follow the road and walk up the hill. (You will see Sugimoto Dental Clinic on your right halfway up.)

Cross the crosswalk at Bus Street and walk to the right along Bus Street until you reach the first T-junction, and turn left.

(West Gate) Go straight through the four-street intersection and walk about 200 meters, and you will see West Gate.

(North Gate) Turn left at the four-street intersection and go about 200 meters along the green fence, and you will see North Gate.

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