

For Enrollment April 2025
Graduate School of Engineering
Master's Course

Admissions Guide

Nagoya Institute of Technology

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Graduate School of Engineering Master's Course Students' Admissions Guide for Enrollment in April 2025

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Education Philosophy

The education philosophy of Nagoya Institute of Technology is to “Aim toward achieving the happiness of humankind and welfare of the global community going into the future while nurturing the human talent to support this goal based on three guiding principles: *Monozukuri* (Innovation), *Hitozukuri* (Education), and *Miraizukuri* (Contribution).”

Each and every graduate of this school is expected to be active as a pragmatic engineering elite who possesses the skills to create revolutionary academic innovations and technologies in the real world by working together with various people in various fields throughout the global community and striving toward a sustainable society of the future.

Admissions Policy (Policy on the Admission of New Students)

Graduate School Master's Course

To nurture human resources according to our education philosophy, students who satisfy the following are admitted widely from within Japan and around the world.

Students who study the master's course at our university have the abilities of a bachelor's degree graduate, a fundamental knowledge of engineering and a grasp of its mission, and a good understanding of the philosophy of our university and have the desire to fulfill that mission of engineering.

- (1) People who have graduated with a bachelor's degree or who have equivalent abilities
- (2) People who have the communication proficiency to exchange ideas with other people and are able to understand lectures and textbooks in English and exchange ideas with other people in English
- (3) People who have the fundamental knowledge of engineering required to complete the program they desire to study and who have the ability to utilize this knowledge for problem-solving
- (4) People who have a strong desire to be the leaders of engineering in the future

Note: For Diploma Policy and Curriculum Policy, please see page 19 and after.

Graduate School of Engineering Master's Course
Students' Admissions Guide for Enrollment in April 2025

The Graduate School of Engineering of the Nagoya Institute of Technology (NITech) invites prospective students for the master's course as follows:

1. Departments, Programs, and the Number of Places

Department	Category	Program of	Number of students to be admitted
Department of Engineering	Life Science and Applied Chemistry	Life and Materials Chemistry	365
		Soft Materials	
		Advanced Ceramics	
	Physical Science and Engineerin	Materials Function and Design	
		Applied Physics	
	Electrical and Mechanical Engineering	Electrical and Electronic Engineering	
		Mechanical Engineering	
	Computer Science	Networks	
		Computational Intelligence	
		Multimedia and Human Computer Interaction	
		Mathematics and Mathematical Science	
	Architecture, Civil Engineering and Industrial Management Engineering	Architecture and Design	
		Civil and Environmental Engineering	
		Systems Management and Engineering	
	Interdisciplinary Research	Future Communications	
		Carbon Neutrality Science and Engineering	

		Biomedical Science and Engineering	
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Note 1: The approximate number of students to be admitted of each category is listed below.

Category	Approximate number of students to be admitted
Life Science and Applied Chemistry	104
Physical Science and Engineering	44
Electrical and Mechanical Engineering	96
Computer Science	71
Architecture, Civil Engineering and Industrial Management Engineering	50

Note 2: The approximate number of students for Program of Future Communications, Program of Carbon Neutrality Science and Engineering and Program of Biomedical Science and Engineering is included in those of five categories (Life Science and Applied Chemistry, Physical Science and Engineering, Electrical and Mechanical Engineering, Computer Science and Architecture, Civil Engineering and Industrial Management Engineering).

2. Eligibility Requirements

Applicants must satisfy one of the following requirements:

- (1) Applicants who have graduated from university or are expected to do so by March 31, 2025
- (2) Applicants who have received or are expected to receive by March 31, 2025, a bachelor's degree as stipulated in Section 7, Article 104 of the of the School Education Act
- (3) Applicants who have either completed 16 years of schooling overseas or are expected to do so by March 31, 2025
- (4) Applicants who, while residing in Japan, have completed or are expected to complete by March 31, 2025, the equivalent of a 16-year educational program at an academic institution in a country other than Japan through a correspondence program at that institution
- (5) Applicants who, while residing in Japan, have completed or are expected to complete by March 31, 2025, a program at an academic institution in a country other than Japan that is designated by the Minister of Education, Culture, Sports, Science and Technology as equivalent to a university program (provided that the applicant has completed a 16-year school education in the said country)
- (6) Applicants who were awarded or are expected to be awarded by March 31, 2025, a degree equivalent to bachelor's by universities overseas or others (only which are comprehensively evaluated with their activities of educational research and so on by the bodies certified by their governments or organizations concerned or separately designated by Ministry of Education, Culture, Sports, Science and Technology as equivalent) to complete the program that is more than 3 years (including to complete the equivalent program by taking the correspondence course subjects in Japan, which are provided by the schools overseas, and a program at an academic institution in a country other than Japan that is designated in (5)).
- (7) Applicants who have completed a vocational program at a vocational school (provided that it is at least a 4-year program that also meets other standards set by the Minister of Education, Culture, Sports, Science and Technology) specified by the Minister of Education, Culture, Sports, Science and Technology, on or after the date specified by the Minister of Education, Culture, Sports, Science and Technology
- (8) Applicants specified by the Minister of Education, Culture, Sports, Science and Technology as eligible
- (9) Applicants who are currently enrolled in at least their third year at university and who will be approved by the Graduate School of Engineering at NITech if they receive good grades in their prescribed courses
- (10) Applicants who have completed a 15-year school education in a country other than Japan and will be approved by the Graduate School of Engineering at NITech if they receive good grades in their prescribed courses

- (11) Applicants who, while residing in Japan, have completed a 15-year school education in a country other than Japan through a correspondence at that institution and will be approved by the Graduate School of Engineering at NITech if they receive good grades in their prescribed courses
- (12) Applicants who, while residing in Japan, have completed a program at an academic institution in a country other than Japan that is designated by the Minister of Education, Culture, Sports, Science and Technology as equivalent to a university program (provided that the applicant has completed a 15-year school education in the said country other than Japan) and will be approved by the Graduate School of Engineering at NITech if they receive good grades in their prescribed courses
- (13) Applicants who are recognized by the Graduate School of Engineering at NITech as having a scholastic ability equal to or higher than that of a university graduate as a result of individual admission eligibility evaluation and will reach 22 years old by March 31, 2025

Note 1: Students applying under eligibility requirement (9), (10), (11), or (12) should refer to “Applying under Eligibility requirement (9), (10), (11), or (12)” on page 17

Note 2: Students applying under eligibility requirement (13) should refer to “Applying under Eligibility requirement (13)” on page 17

3. Application Period

(1) Internet application registration period

From 9:00 a.m. on Tuesday, July 9, to 3:00 p.m. on Friday, July 19, 2024

(2) Application document acceptance period

From on Tuesday, July 16, to 4:00 p.m. on Friday, July 19, 2024

Note 1: Submit application documents after registration (system input) of information for application over the Internet by bringing them with you or mailing them. If bringing them with you, reception of the documents is from 9:00 a.m. to 4:00 p.m. of those days. If mailing them, they must be received no later than 4:00 p.m. on Friday, July 19.

Please check details from “4. Application Procedure.”

Applications received after the deadline for accepting application documents will not be accepted.

Note 2: Before applying, please consult with the faculty member in NITech whom you would like to have as your academic adviser (your first preferred academic adviser) for your research proposal and the application for admission.

For international student applicants, please submit a curriculum vitae downloaded from the URL below to the faculty member whom you wish to supervise by Friday, June 28, 2024.

URL : <https://www.nitech.ac.jp/examination/in/request.html>

4. Application Procedure

For those who wish to enroll, make careful confirmation of steps [1]–[4] and complete the necessary procedures.

[1] Procedure When Applying Over the Internet

(1) Confirmation of the entrance examination system	Download “Admissions Guide” from the NITech website, and check the qualifications for application and the application period to the program you wish to enter into.
(2) Registration of application information	From a computer, etc. connected to the Internet, follow the instructions on the screen, and enter the content to be registered.
(3) Confirmation of application information	Check the registered application information. The information can be printed out for confirmation.
(4) Selection of payment method	Select the method of payment for the examination fee. <ul style="list-style-type: none"> • Credit card • Convenience store payment • Bank ATM (Pay-easy) • Online banking
(5) Payment of examination fee	Through the payment method you selected, pay the registration and examination fee (30,000 yen) and bank transfer fee (990 yen.) Note: If you wish to have your test results disclosed, you need to pay an additional 800 yen.

(6) Printing of registered application information	Print out the Application Checking Sheet and other documents.
(7) Submission of application documents	Submit the printed documents with the registered application information, from (6) etc. to Nagoya Institute of Technology as written on page 6 of “[3] Application Documents” to complete application.

Note 1: Application is not complete by only registering the application information over the Internet. Application is complete after submission of the Application Checking Sheet and other documents written on page 6 of “[3] Application Documents.”

Note 2: In case of the following actions during the application information registration, or you have not continued on to the next page within 30 min, please note that registration must be started over again.

- You have closed the browser before completing the application information’s registration.
- You clicked the “Back” button in the browser to return to the previous screen.

Note 3: Check the Internet application registration site below regarding details on examination fee payment methods, frequently asked questions, etc.

Note 4: If a student has large-scale natural disaster during the 1 year prior to the application, he or she may be exempt from paying the examination fee by applying the exemption. A student may be exempt if he or she has the natural disaster inside the designated area of National Disaster Relief Act (災害救助法) and had his or her house completely, seriously, or partially destroyed or his or her household finances supporters have passed away or have missed. (The national disaster is limited to those that occurred in Japan.)

For details, please check the NITech website (<https://www.nitech.ac.jp/examination/sokuhou/>) and submit the necessary documents.

Internet Application Registration Site

NITech English website > Prospective Students > Internet Application Registration Site

Note 5: The following are the recommended system requirements for computer and mobile device when registering your application information over the Internet.

(1) Recommended System Requirements for Computer

Browser

Windows	Macintosh
Google Chrome	Safari
Microsoft Edge	Google Chrome (Mac OS 10.6 or later)

PDF Reading Software

Windows	Macintosh
Adobe Acrobat Reader DC	Adobe Acrobat Reader DC

(2) Recommended System Requirements for Mobile Device

Although the following are recommended system requirements, some functions may not work depending on the environment of use. In such case, please use a computer instead.

OS

Android	iOS
Android 10.X.X or later	iOS 14.X.X or later
Android Chrome	Safari

[2] Registration of Application Information over the Internet and Payment of the Examination Fee

- (1) Registration of application information over the Internet and a payment of the examination fee are required.
The process of registration application information over the Internet is as stated in the separate “Internet Application Registration Process Guide” file.
- (2) Items to be prepared before beginning the registration of application information
 - a. Statement of purpose and other documents
In addition to the documents created through the registration system for the application information, submission of the statement of purpose and other documents as stated in the “Other Necessary Documents” section of “[3] Application Documents” must be done within the application period. Please have them prepared so as not to be late.
 - b. Applicant’s facial photo data
Have the data of a photograph prepared clearly showing the full face, head, and shoulders, without any hat, and taken within 3 months of the application. It is registered into the system together with the other information.
 - c. E-mail address
An e-mail address is required. Use of a smartphone, cellular phone, or free e-mail service address is okay. (The e-mail address designated will receive notification e-mails such as those regarding completion of application information registration.)
 - d. Printer and printer paper
A printer able to make prints in A4 size (in either monochrome or color) is required. Normal printer paper may be used (for printing the registered application information).
- (3) Cases when the Internet is unavailable
If an Internet environment is not available for application registration at your home, or school or university enrolled in, please inquire through the information listed in “18. Contact Information” on page 13.

Note: The application procedure is complete upon registering the information for application over the Internet and submitting the documents written on page 6 of “[3] Application Documents.” Please note that if the necessary documents are not submitted by the application period listed in “3. Application Period” on page 4, the application will be considered incomplete (registered data invalid) and you will not be able to take the examination.

[3] Application Documents

After registering the application information in [2] of page 6 over the Internet, compile the following documents, and submit them to the NITech Admission Division by the prescribed date.

If mailing your application, use a commercial envelope (a rectangular No. 2 envelope with a length of 33 cm and width of 24 cm), stick a mailing label described in (2) of the chart below to the front of the envelope, **and mail it as registered express mail.**

Please contact the Admission Division if you are submitting the application documents from outside Japan.

Printed documents of the registered application information over the Internet	(1) Application Checking Sheet (Submission Sheet)	The printed version of the application information after registration over the Internet
	(2) Mailing label	Stick the printed mailing label to the envelope used to send the application documents after the registration of application information over the Internet. If bringing the application in person, print out the shipping label, and bring it with you (it does not need to be stuck on the envelope).
Other necessary documents	(3) Statement of purpose	Write on each of the points. Please download and use the statement of purpose form from the NITech website (https://www.nitech.ac.jp/examination/in/request.html).
	(4) Academic transcript (copy not allowed)	Submit an academic transcript issued by the president of your university, college, or technical college and so on. In addition, applicants who transferred to a university or who are attending

		<p>or have completed advanced courses at a college of technology must submit academic transcripts of the university before you transferred or main course of the college or technical college.</p> <p>(If it is not written in Japanese or English, a Japanese or English translation must be included.)</p> <p>Applicants from Chinese educational institutions should refer to the notes below.</p>
Other necessary documents	(5) Certificate of (expected) graduation (copy not allowed)	<p>Submit an academic transcript issued by the president of your university, college, or technical college and so on.</p> <p>(If it is not written in Japanese or English, a Japanese or English translation must be included.)</p> <p>Applicants from Chinese educational institutions should refer to the notes below.</p>
	(6) TOEFL-iBT or TOEIC L&R score report	<p>Read the instructions in Section 4 [4] (1) carefully.</p>
	(7) Return envelope for score sheet of (6)	<p>For applicants mailing their application documents, and submitting the document (7) by 4 [4] (1) B or C, an envelope to return the score sheet is necessary.</p> <p>Write your name, address, and postal code on a commercial envelope (a rectangular No. 3 envelope with a length of 23.5 cm and width of 12 cm), and attach a postage stamp (374 yen).</p>
	(8) Other	<p>A. If prospective students from abroad, submit a copy of your certificate of residence with your <u>status</u> and <u>period of stay</u> written on it or a copy of both sides of your residence card.</p> <p>B. If you are applying under eligibility requirement (2), “an applicant who has received a degree,” you must submit a certificate of your bachelor’s degree, issued by National Institution for Academic Degrees and Quality Enhancement of Higher Education.</p> <p>C. If you are applying under eligibility requirement (2), “applicant who expects to receive a degree,” you must submit the following two documents a and c or b and c:</p> <p>a. Certificate stating that you expect to complete advanced courses at a junior college or college of technology in which you are currently enrolled</p> <p>b. Expected certificate of the college in which you are currently enrolled</p> <p>c. Certificate stating that you plan to apply for a bachelor’s degree issued by the president of the junior college or college of technology you are attending</p>
	(9) Declaration of applicable specific categories	<p>All applicants are required to fill out, sign, and submit “Declaration of applicable specific categories” because we have to confirm whether or not you are subject to the “deemed export” controls under the Foreign Exchange and Foreign Trade Act (“FEFTA”).</p> <p>Please download and use the form from the NITech website (https://www.nitech.ac.jp/examination/in/request.html).</p>

Note: The documents submitted for application requirement (13)’s admission screening do not need to be resubmitted at the time of application.

<Regarding certificates of applicants from Chinese educational institutions >

(4) Academic transcript and (5) Certificate of graduation

Applicants from Chinese educational institutions are required to follow the procedure whereby CHSI (China Higher-education Information and Student Information; <https://www.chsi.com.cn>) directly sends your grade certification report (English version) and educational background certification report (English version) to the Entrance Examination Division at Nagoya Institute of Technology (nit.nyushi@adm.nitech.ac.jp) by the deadline for application. Only reports submitted by CHSI will be accepted.

If the applicant has not graduated from the relevant institution at the time of application, the applicant should submit a transcript of the current academic year for (4) academic transcript and a certificate issued by the institution showing that the applicant is expected to graduate for (5) Certificate of graduation.

Applicants who fail to follow the procedures and whose documents are not submitted by the deadline will not be able to take the examination. Be sure to allow plenty of time for submission of the application.

[4] Important Points

(1) Submission of TOEFL-iBT or TOEIC L&R score report

Please submit the required documents by one of the following:

A. TOEFL-iBT Official Score Report or Institutional Score Report

Request Educational Testing Service (ETS) to send either of the Score Report to NITech so that the Report will reach NITech no later than the admission application deadline. Requests can be made by either of the following methods:

- Requesting ETS directly at the time of application for a TOEFL test or by 10:00 p.m. on the day prior to the TOEFL test day (free of charge)
- Requesting ETS directly on or after the TOEFL test day (charged)

NITech's Designated Institution Code (DI Code): 8549

It may take approximately 2 months before the Score Report reaches NITech. Be sure to make the request well before the admission application deadline. If the Score Report does not arrive at NITech within the admission application period, your application documents will be regarded as incomplete.

If you would like to confirm if the TOEFL score report has arrived at NITech, please send us an e-mail (nit.nyushi@adm.nitech.ac.jp):

Subject: TOEFL score report

Body of e-mail : ① Name (alphabet)

② TOEFL Test Date

③ TOEFL Registration Number or Appointment Number

④ Date of Birth

B. TOEFL-iBT Examinee Score Report or Test Taker Score Report

You must submit the original Score Certificate with a photograph of your face that was issued by ETS (a photocopy cannot be accepted).

C. TOEIC Listening & Reading Test (TOEIC L&R) original Official Score Certificate

TOEIC Speaking & Writing Test Score Certificate is not allowed.

Note: To be valid, your score sheet must be dated within 2 years prior to the application period.

Scores for special examination systems like TOEFL-ITP and TOEIC-IP, etc. cannot be used.

About TOEFL-iBT score, NITech does not use MyBest scores.

(2) Incomplete application documents cannot be accepted.

(3) Changes made after registering your application over the Internet are not acknowledged. However, if your

address, phone number, etc. have changed, please contact NITech through the information listed in “18. Contact Information” on page 13.

- (4) Once you have submitted admission application documents, you cannot make changes to the contents, and the documents you submit will not be returned.
- (5) Examination fees and test results disclosure fees already paid are not reimbursed for any reason other than the following cases:
 - A. The fee was paid, but the application documents were not mailed.
 - * The application process is not complete by only registering application information over the Internet. It is complete after mailing in the application documents within the application period.
 - B. The fee was paid, but due to a mistake or mistakes in the application documents, application was not accepted.
 - C. The fee was mistakenly paid twice.
- (6) Any false information in the submitted documents will cause cancellation of one’s admission even after you have been admitted.
- (7) The personal information used for the selection will be dealt with under the Act on the Protection of Personal Information Held by Independent Administrative Agencies:
 - a) For the personal information used for the selection, NITech will use them for investigation and research for future selections. For the investigation and research, NITech may entrust some processes of the affairs to contractors with which NITech has made a nondisclosure agreement. In this case, NITech provides the personal information to the contractors within the scope of the entrusted affairs.
 - b) Regarding the personal information of successful applicants, such as the name and the address and so on, NITech will use them for sending the advance guide about textbook purchasing and rental housing and so on. About the affairs, NITech may entrust them to contractors with which NITech has made a nondisclosure agreement. In this case, NITech provides the personal information to the contractors within the scope of the entrusted affairs.
 - c) Regarding the personal information used for the selections, NITech will use them for the academic affairs, including register management, and affairs related to study support and student support. To carry out the affairs, NITech may entrust some processes of them to contractors with which NITech has made a nondisclosure agreement. In this case, NITech provides the personal information to the contractors within the scope of the entrusted affairs.

5. Download and Printing of the Examination Admission Ticket

The examination admission ticket can be downloaded or printed from Wednesday, July 24, 2024.

Download and print the examination admission ticket from the Internet application registration site, and bring it with you on the day of the examination.

6. Preliminary Consultation for Applicants with Disabilities or Others

Special treatment is available for students with disabilities. Please contact the Admission Division prior to the application if you have a disability stipulated in Article 22-3 of the Ordinance for Enforcement of the School Education Act and other disability or others and therefore need special care to enable you to attend the admission examination and graduate school programs.

(1) Date and consultation

By Friday, June 14, 2024

By the date above, you should inform the Admission Division of the content of your requirements, either in writing, or by phone, or other means. The Office may conduct a meeting on campus, if necessary, by inviting you or a staff member of your school who can provide the necessary explanation on your behalf.

(2) Contact information

Refer to Section “18 Contact Information” on page 13.

7. Visa (Coming to Japan for the Entrance Examination)

Depending on your nationality, applicants who intend to enter Japan to take the entrance examination must obtain a visa. For details, please contact your local Japanese Embassy or Consulate.

NI Tech cannot be your “Inviter” or “Guarantor” when applicants apply for their “short-term visa.” Please prepare for the necessary conditions and apply for the visa on your own.

For further information, please refer to the Ministry of Foreign Affairs website:

https://www.mofa.go.jp/j_info/visit/visa/index.html

8. Selection Process

Applicants will be selected based on a comprehensive assessment of their academic evaluation results, interview results, and academic transcripts. Applicants must participate in all examinations and interviews indicated by NI Tech. NI Tech will reconfirm their preferred adviser with them in the interview, etc.; however, in some cases, they may not be accepted by their first preferred adviser.

A: Academic evaluation

(a) Specialized examination (written examination, 300 points total)

9:00 to 12:00 on Thursday, August 22, 2024

On the specialized examination (written examination), necessary subjects are given according to the program designated in the “List of advisers for Master’s Course”. If you wish to be the faculty member of Interdisciplinary Research, you will be required to take the Question Subjects designated by the program listed in the Question Subjects column of “List of advisers for Master’s Course”.

Question subjects and question scopes should be checked on page 14, “Question Subjects and Question Scopes.”

Although questions will be provided in Japanese, answers may be given either in Japanese or in English.

(b) Foreign-language (English) examination (written examination, 100 points total)

For the foreign-language examination, applicants receive points based on their TOEFL-iBT or TOEIC L&R scores. The conversion of TOEFL-iBT and TOEIC L&R scores to English points will be based on the range given in the conversion table below.

The expiration date of the score sheet (transcript) shall be within 2 years before the application period for the examination. If you submit both TOEFL-iBT and TOEIC L&R scores, the highest score will be adopted as the converted score.

TOEIC L&R	TOEFL-iBT	Written examination score
990	120	100
10	0	0

B: Interviews

Starting at 12:45 on Friday, August 23, 2024

A personal interview that covers research ambitions, aptitudes, character, etc. will take place.

C: Oral examination for working people

Thursday, August 22, 2024 (examination time will be announced from NITech)

Applicants of working people(excluding those currently attending NITech) may take the oral examination for working people, which covers program-specific topics related to the applicant's preferred field and details of the applicant's work experience report, and the oral examination for Foreign-language (English) instead of the aforementioned **field-specific examination (written examination)** used for academic evaluation, and Foreign-language (English) examination. Applicants who wish to do this should refer to "About the Oral Examination for Working Adult Students" on page 18.

9. Examination Site

The Nagoya Institute of Technology, Nagoya City, Aichi Prefecture

Detailed information will be posted at Building No. 2 on the examination day.

10. Announcement of Successful Applicants and Admission Procedure

- (1) An announcement of successful applicants will be made by posting the examination numbers of successful applicants on the website of NITech (<https://www.nitech.ac.jp/>) at 10:00 on Friday, September 13, 2024, and also by mailing letters of acceptance to each successful applicant.

Results will not be available on the phone.

In addition, your Examination Admission Ticket will be needed for the admission procedure, so please keep it.

- (2) Successful applicants (or their proxies) should carry out the admission procedure at the date shown below.

If the admission procedure is not carried out by the prescribed deadline, the applicant will be considered to have declined admission. Note that the admission procedure can also be conducted by mail in accordance with the Admission Procedure Guide that will be sent at the end of November 2024. The documents required for admission procedure will be included in the envelope with the Admission Procedure Guide.

Date and time of admission procedure	Location
Friday, December 13, 2024 10:00 a.m. to 4:00 p.m.	Nagoya Institute of Technology

11. Necessary Fees for Admission Procedure

Admission fee	282,000 yen (estimated)
Tuition fee (Payment after admission)	Annual amount: 535,800 yen (estimated) { First semester: 267,900 yen Second semester: 267,900 yen

Note 1: If the admission fee and/or the tuition fee are revised, they will be applied from the time of the revision.

Note 2: Students who would like to pay the annual fees in one payment can pay them when paying the tuition for the first semester.

Note 3: The tuition must be paid between Tuesday, April 1, and Friday, May 30, 2025.

Note 4: The paid admission fee will not be returned.

Note 5: NITech has a system where students may delay or be exempt from paying the admission and tuition fees.

12. Public Information

The following information on the entrance examination for the master's course at the Graduate School of Engineering in 2025 will be disclosed.

(1) Application figures

The numbers of applicants, entrance examinees, successful applicants, and enrolled students are disclosed on the NITech website.

(2) Examination questions

① Examination questions

Examination questions from the past 3 years are available on NITech's website.

However, copyright law may prevent some questions from being posted.

② Examples of solutions and answers (However, in the case of questions for which it is difficult to give a solution or answer, question intent and evaluation points may be shown.)

③ Availability

The aforementioned information will be posted to NITech's website in early September 2024.

(3) Examination results

① Upon request from examinees, the following items will be disclosed:

Comprehensive evaluation (A, B, or C)

Examination results will not be disclosed to those who lose eligibility status due to absence from one or more examination subjects.

② Request

a) Way of request

Applicants who wish to have their test scores disclosed must select "Yes" in the "Request for Disclosure of Test Scores" field when registering for the online application. Please make sure to select "Yes" in the "Request for Disclosure of Examination Scores" box when you register your application online. Individual requests for disclosure by e-mail or telephone after application will not be accepted.

If you choose "Yes," a separate disclosure request fee of 800 yen is required per application. Please pay it together with the application fee.

b) Notification

The application can be viewed from Tuesday, October 1, 2024, to Friday, November 29, 2024.

Note 1: To view the application, you will need your "Name," "Examination Number," and "Reference Number" from your Web-based application registration. Since there is a long period of time between the application and the disclosure period, please be careful to keep track of your examination number and reference number.

Note 2: In the unlikely event that you do not know your reference number, you can receive a notification to your registered e-mail address. Please be sure to register an e-mail address that you will not change until the time of disclosure.

Note 3: We will not respond to inquiries such as "I don't know my examination number" or "I don't know my reference number and cannot use my registered e-mail address."

c) How to browse

Please go to the Admissions page of the University's website and go to the Personal Results Disclosure System.

Enter your "Name," "Exam Number," and "Reference Number" when you registered your application online.

13. Selection of Privately Financed International Students

The Graduate School of Engineering at NITech (master's course) is also accepting applications from privately funded international students separately.

14. Preference for Program and Academic Adviser

Refer to the separate file "List of Advisers for Master's Course" for the necessary information to choose the preferred program and academic adviser.

If you wish to have a faculty member who is not affiliated with the program as your academic adviser, please consult with the Admission Division listed in "18. Contact Information" on page 13 in addition to consulting with your preferred primary academic adviser.

15. Approval of Course Completion and Conferment of Academic Degree

A master's degree (in engineering or philosophy) will be conferred to students who attend the Graduate School of Engineering at NITech for at least 2 years, who receive at least 30 credits in courses stipulated by their program, who receive the necessary research guidance, and who pass the evaluation of their master's thesis conducted by the Graduate School and their final examination.

16. Scholarship

Upon request, students may apply to receive scholarships from the Japan Student Services Organization.

17. Security Export Control

Nagoya Institute of Technology has established the "Nagoya Institute of Technology Security Export Control regulations" in accordance with the "Foreign Exchange and Foreign Trade Act" and rigorously screens potential international students on the basis of these regulations.

In November 2021, in accordance with the clarification of the scope of control for "deemed exports" under the Foreign Exchange and Foreign Trade Act ("FEFTA"), all applicants who are to study at Nagoya Institute of Technology will be required to submit a "Declaration of applicable specific categories" based on the "Flowchart for determining applicable specific categories." In addition, some students may be required to submit a "pledge" at the time of admission procedures.

Please be aware that applicants who fall under any of the conditions set out in said regulations may have their education or research activities restricted.

[Reference]

Ministry of Economy, "Trade and Industry "Security Export Control"

<https://www.meti.go.jp/policy/anpo/englishpage.html>

"Nagoya Institute of Technology Security Export Control regulations"

https://www.nitech.ac.jp/eng/about/regulations/files/c-1_Security_Export_Control_Regulations.pdf

18. Contact Information

For inquiries about the Application Guide, please contact us by e-mail or telephone.

Admission Division, Nagoya Institute of Technology

Gokiso-cho, Showa-ku, Nagoya City 466-8555

Telephone: +81-52-735-5083

Fax: +81-52-735-5084

E-mail: nit.nyushi@adm.nitech.ac.jp

Question Subjects and Question Scopes

The specialized examination is listed below, according to the program designated in the List of advisers for Master's Course.

If you wish to be the faculty member of Interdisciplinary Research, you will be required to take the Question Subjects designated by the program listed in the Question Subjects column of "List of advisers for Master's Course".

Please check "List of advisers for Master's Course" on NITech website.

(Home > Prospective Students > Programs > Master's Course)

URL: <https://www.nitech.ac.jp/eng/admission/master.html>

■Program of Life and Materials Chemistry :

You are required to answer all four questions. However, for the three questions numbered 2 to 4, you must choose either Question scope A or B for each question number and answer only the question scope you have chosen.

Question No.	Question subject	Question scope
1	Organic chemistry	Structure, properties, reactions, and syntheses of organic compounds
2	Biochemistry, polymer chemistry	A: biochemistry and molecular biology B: synthetic polymer and biopolymer
3	Inorganic chemistry, analytical chemistry	A: inorganic chemistry, coordination chemistry, and electrochemistry B: chemical equilibrium, separation analysis, spectroscopic analysis, mass spectrometric analysis, and electrochemical analysis
4	Physical chemistry, chemical engineering	A: basic chemistry, chemical bonds, and reaction kinetics B: basic chemical engineering and transport phenomena

■Program of Soft Materials : You must answer all the three questions.

Question No.	Question subject	Question scope
5	Polymer synthesis	Chain-growth polymerization, step-growth polymerization, polymer reaction, characterization, etc.
6	Polymer physical chemistry	Physical chemistry of polymer solutions, liquids, and solids, polymer structure, etc.
7	Polymer material properties	Polymer material characteristics, rubber elasticity, viscoelasticity, time-temperature superposition principle, etc.

■Program of Advanced Ceramics : You must answer all the three questions.

Question No.	Question subject	Question scope
8	Synthesis of inorganic materials	The basics of inorganic materials, such as materials chemistry, thermodynamics, organization control, ceramics surface chemistry, crystalline materials synthesis, amorphous materials synthesis, etc.
9	Structure analysis and characterization of inorganic materials	Inorganic structural chemistry, quantum chemistry, crystallography, structure analysis, materials analysis, etc.
10	Physical properties of inorganic materials	Revealing the properties and structure of inorganic materials, electronic properties, materials science, material strength studies, etc.

■ Program of Materials Function and Design : You must answer all the four questions.

Question No.	Question subject	Question scope
11	Basic physical mathematics	Linear algebra, multivariable calculus, Fourier analysis, differential equation, vector calculus
12	Solid state physics	Electronic properties, magnetic materials, electrical and electronic materials, etc.
13	Physical chemistry	Thermodynamics, thermal properties, materials processing, etc.
14	Materials science	Crystallography and crystal structure analysis, microstructure of materials, mechanical properties of materials, structural materials, etc.

■ Program of Applied Physics : You must answer all the four questions.

Question No.	Question subject	Question scope
15	Basic physical mathematics	Matrices and determinants, Fourier analysis, differential equation, vector calculus
16	Electromagnetics	Electric field, magnetic field, electric circuit, electromagnetic wave
17	Statistical mechanics	Canonical ensemble, free energy, Fermi/Bose statistics
18	Quantum mechanics	Basic principles of quantum mechanics, one-dimensional eigenvalue problems, harmonic oscillator, central force and angular momentum, perturbation theory

■ Program of Electrical and Electronic Engineering : You must answer all the four questions.

Question No.	Question subject	Question scope
19	Control engineering	Laplace transform, transfer functions, block diagrams, system response, frequency response, system stability
20	Electric circuit	Direct current circuit, alternating current circuit (excluding three-phase alternating current), transient phenomenon
21	Electromagnetics	Static electric field, stationary current, static magnetic field, electromagnetic induction (excluding electromagnetic waves)
22	Electronic circuits	Circuits including transistor and operational amplifiers

■ Program of Mechanical Engineering : You must answer all the five questions.

Question No.	Question subject	Question scope
19	Control engineering	Laplace transform, transfer functions, block diagrams, system response, frequency response, system stability
23	Mechanics and strength of materials	Basic knowledge of statics and dynamics of material particles and rigid bodies; momentum, impulse, and energy; strain and stress; tension and twist of bars; bending of beams, buckling
24	Fluid dynamics	Hydrostatics, one-dimensional flow (including Bernoulli's theorem), momentum theory, dimensional analysis, pipe flow, basic equations of fluid mechanics, potential flow
25	Thermodynamics	First law, second law, ideal gas, general thermodynamic relations, gas cycles, steam cycles, effective utilization of thermal energy
26	Materials and processing	Basic matters of mechanics of plasticity, fundamental

		knowledge of basic machine materials
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■Program of Networks, Computational Intelligence and Multimedia and Human Computer Interaction :
You must answer the three questions: Nos. 27 to 29.

■Program of Mathematics and Mathematical Science : You must select three questions from Nos. 27 to 32.

Question No.	Question subject	Question scope
27	Computer software	Data structures and algorithms, formal language, and automata
28	Computer hardware	Computer fundamentals, logic circuits, computer structure
29	Mathematics for computer science	Information theory, discrete mathematics
30	Calculus and linear algebra	Calculus and linear algebra (focused on calculation problems), excluding differential equations
31	Mathematics 1	Complex analysis, vector analysis, and differential equations (including Fourier analysis)
32	Mathematics 2	Questions measuring mathematical thinking skills through a range of mathematics including theoretical aspects of calculus and linear algebra

■Program of Architecture and Design :
You must answer all the three questions.

Question No.	Question subject	Question scope
33	Architectural planning, history, and drafting	All aspects of architectural planning, urban design, architectural history and design, and architectural drafting
34	Design theory and architectural environment	All aspects of design theory, architectural environments, and building equipment
35	Building material, construction method, and structure	All aspects of building materials, construction methods, structural mechanics, and building structures

■Program of Civil and Environmental Engineering: You must answer all the three questions.

Question No.	Question subject	Question scope
36	Structural mechanics and concrete engineering for civil engineering	Structural mechanics and concrete engineering, in general, in the field of civil engineering
37	Hydraulics and geomechanics for civil engineering	Environmental hydraulics, soil mechanics, and geotechnical engineering, in general, in the field of civil engineering
38	Planning for civil engineering	Infrastructure planning in the field of civil engineering (linear programming, queuing theory, cost-benefit analysis, mean deviation testing, regression analysis, process management) and civil engineering ethics

■Program of Systems Management and Engineering : You must answer all the four questions.

Question No.	Question subject	Question scope
39	Engineering mathematics in systems management	Operations research, quality management, production management
40	Management systems	Systems approach, business administration, organizational behavior
41	Business management	Management strategy, marketing, engineering economy
42	Systems administration	Risk management, human factors, project management

Applying Under Eligibility Requirement (9), (10), (11), or (12)

Applicants applying under eligibility requirement (9), (10), (11), or (12) should be aware of the following:

1. Admission eligibility evaluation

Successful applicants must submit the “Documents needed for evaluation” described in item 2. Admission eligibility will then be evaluated.

If the evaluation determines that the applicant does not satisfy the requirements described in item 3, that applicant’s eligibility will be rescinded.

2. Documents needed for evaluation

(1) Academic records up to the student’s third year (produced and sealed by the university the applicant is currently attending).

(2) Curriculum (documents indicating graduation requirements, course contents, etc. in detail).

(3) Details regarding the aforementioned required documents and submission deadline will be sent to applicant together with the letter of acceptance.

3. Admission eligibility requirements

To meet the admission eligibility requirements, accepted applicants must satisfy all the following requirements:

(1) Applicants who are in at least their third year at their current university as of March 31, 2025

(2) Applicants who have obtained at least 85% of the credits needed for graduation at their current university as of March 31, 2025

(3) Applicants who have earned a score of 80 points or more out of 100 in at least 80% of all course credits earned in (2).

4. Other applicants will no longer be attending their current university as an undergraduate as far as that university’s student register is concerned.

Accordingly, applicants should be aware that they will no longer meet examination qualifications for various government examinations that require students to be graduates of university undergraduate programs.

Applying Under Eligibility Requirement (13)

1. Applicants applying under eligibility requirement (13) must be graduates of a junior college, college of technology, vocational school, schools in the miscellaneous category, and other educational institutions.

2. The Graduate School of Engineering at Nagoya Institute of Technology conducts eligibility evaluations to assess the specifics of each individual’s academic history, practical experience, experience with international activities, etc.

3. Applicants who undergo this evaluation should submit the following documents to the Admission Division by 16:00 on Monday, May 13, 2024:

(1) Application for the entrance eligibility

(2) Certificate of academic record from their most recently attended educational institution

(3) Graduation or completion certificate from the most recent educational institution

(4) Statement of purpose

(5) Documents that provide an overview of the school attended by the applicant and details about its curriculum and academic programs

Note 1: Please contact Admission Division for application for the entrance eligibility mentioned above.

Note 2: Please download and use the statement of purpose form stated above from the NITech website (<https://www.nitech.ac.jp/examination/in/request.html>).

4. The applicant will be contacted regarding the results of the evaluation by Monday, June 24, 2024.

5. At the time the application eligibility is approved, details regarding application procedures are given.

6. Evaluation documents sent after the submission deadline will not be accepted.

About the Oral Examination for Working Adult Students

1. Applicants who wish to take the oral examination for working adult students instead of the field-specific examination (written examination) used for academic evaluation will be evaluated by the Graduate School of Engineering at Nagoya Institute of Technology to determine whether or not they take the oral examination for working adult students.
2. Those wishing to have the evaluation conducted, submit the following documents in addition to those described in (4) and (5) of “4. [3] Application Documents” on page 6 to the Admissions Division by 4:00 p.m. on Friday, June 28, 2024.
 - (1) Resume
 - (2) Statement of purpose
 - (3) Documents specifying the applicant’s own preferred topics of study while at NITech and a work experience report (copies of research papers, technical reports, patents, practical proposals, etc.) (no format specified)

Note: Please download and use the statement of purpose form stated above from the NITech website (<https://www.nitech.ac.jp/examination/in/request.html>).

In addition, if receiving application requirement (13)’s admission screening, inform the Admissions Division of that point.
3. The applicant will be contacted regarding the results of the evaluation by Friday, July 5, 2024.
4. At the time of notification of the results, details regarding application procedures are given. Those acknowledged as being able to take the oral examination for working adult students or those who are not acknowledged as being able to take the oral examination for working adult students who wish to take the field-specific examination (written examination), move forward with the application procedure based on that information.

Diploma Policy

(Policy on Master's Degree Certification and Awarding Degrees)

Graduate School Master's Course

The graduate school master's course produces engineers who have the following advanced specialist knowledge and skills according to our education philosophy and who can create new technology.

The master's degree is awarded to students who have satisfied the requirements for the master's degree as defined by the academic rules of Nagoya Institute of Technology Graduate School.

- (1) The ability to understand and observe human, cultural, and social problems from a technical perspective
- (2) A wide range of engineering knowledge and mathematical understanding
- (3) The communication skills to be able to exchange ideas with other researchers and engineers
- (4) The problem-solving skills to plan an appropriate approach to solving a problem and actually solve the problem
- (5) Advanced engineering knowledge and technology and the ability to apply these to solving real-world problems

Goals of Study

The goals of study are as follows in accordance with the Diploma Policy.

○Program of Life and Materials Chemistry, Program of Soft Materials, Program of Advanced Ceramics, Program of Materials Function and Design, Program of Applied Physics, Program of Electrical and Electronic Engineering, Program of Mechanical Engineering, Program of Networks, Program of Computational Intelligence, Program of Multimedia and Human Computer Interaction, Program of Mathematics and Mathematical Science, Program of Architecture and Design, Program of Civil and Environmental Engineering, Program of Systems Management and Engineering

1. To possess knowledge about humanity, culture, society, and technology; to be aware of the ethical, legal, and social effects of technological problems and their solutions; and to be able to examine solutions from these perspectives.
2. To possess mathematical knowledge and understanding of subjects such as data analysis and advanced knowledge in multiple engineering fields.
3. To have the skills to communicate with team members and related people in order to solve engineering problems, and have the ability to establish one's own role and work collaboratively with others.
4. To be able to analyze and break down engineering problems, to conduct documentary research and other required learning, and to plan appropriate approaches, experiments, and other means in order to solve these problems taking into consideration the application of such solutions in the real world.
5. To achieve the specific goals of each program.

【Program of Life and Materials Chemistry】

To possess knowledge and opinions on analytical chemistry, physical chemistry, inorganic chemistry, chemical engineering, organic chemistry, polymer chemistry, and biochemistry, and to be able to contribute to solving various problems in the environment, resources, energy, medicine, etc.

【Program of Soft Materials】

To possess knowledge and opinions on the synthesis, physical chemistry, structure, material properties, and functional expression of soft materials, and to be able to contribute to solving various material problems related to industry, daily life, medicine, energy, the environment, etc.

【Program of Advanced Ceramics】

To possess knowledge and opinions on the structure, function, and material design of ceramics, and to be able to contribute to solving various problems in the development of ceramic materials in order to realize a recycling-oriented society related to information communication, energy, medicine, etc.

【Program of Materials Function and Design】

To possess knowledge and opinions about the physical and chemical properties of metal materials, and to lead research on the design and development of high-performance materials and analysis and evaluation technology, and to be able to contribute to solving various environmental and industrial problems.

【Program of Applied Physics】

To possess knowledge and opinions on the principles of physics from nano to macro-scale, and to lead research and development on nano measurement, analysis, processing, element fabrication technology, and simulation analysis, and to be able to contribute to solving various energy and environmental problems.

【Program of Electrical and Electronic Engineering】

To possess knowledge and opinions on electrical/electronic engineering, control engineering, and communication theory, and to be able to contribute to solving various problems in energy systems, electrical/electronics industries, welfare/medical care, mobility, etc. from perspectives on electrical/electronic engineering, control engineering, and communication theory.

【Program of Mechanical Engineering】

To possess knowledge and opinions on materials engineering, thermal/fluid engineering, technology engineering, control engineering, bioengineering, and mathematical engineering, and from these perspectives, and to be able to contribute to solving various problems such as production/system design, welfare/medical care, automobile/aerospace industries, etc.

【Program of Networks】

By possessing and deepening knowledge and opinions about computer technology, software, and communications, and lead the future of information engineering, and be able to contribute to various problems such as information systems and Internet services.

【Program of Computational Intelligence】

By possessing and deepening knowledge and opinions about artificial intelligence theory and intelligent information processing, and lead the intelligent information technology, and be able to contribute to various problems about intelligent systems, intelligent robots, and intelligent science.

【Program of Multimedia and Human Computer Interaction】

By possessing and deepening knowledge and opinions about human senses and the mathematical principles of media, lead the way in future media information processing and be able to contribute to the various problems of advanced systems and services involving humans.

【Program of Mathematics and Mathematical Science】

By possessing and deepening knowledge and opinions about algebra, geometry, analysis, etc., lead advanced information and mathematical engineering, and be able to contribute to various problems in mathematical science.

【Program of Architecture and Design】

To possess knowledge and opinions on designs, plans, structures, materials, etc. regarding the environment surrounding people, architecture, and people's activities, and to be able to contribute to the design, analysis, and preservation of things related to these.

【Program of Civil and Environmental Engineering】

To possess knowledge and opinions on the interpretation of phenomena related to social infrastructure, simulation, design and planning, etc., and to be able to contribute to the creation of rational solutions to various problems faced by cities and the environment.

【Program of Systems Management and Engineering】

To possess knowledge and opinions in psychology, sociology, business administration and ergonomics, in addition to engineering knowledge in mathematical analysis and data science, and to be able to contribute to problem solving and management in a wide range of industrial fields.

○Program of Future Communications

- 1.To possess knowledge about relationship between humanity, culture, society, and technology; to be aware of the ethical, legal, and social effects of technological problems and their solutions; and to be able to examine solutions from various perspectives.
- 2.To possess mathematical knowledge and understanding of subjects such as data analysis and advanced knowledge in multiple engineering fields.
- 3.To possess skills to communicate with teams and stakeholders to solve engineering problems, and to be able to define one's own role and collaborate with other people.

4. To be able to analyze and detail engineering problems, conduct literature research and study as necessary, and plan approaches and experiments in consideration of application in the real world to solve problems.
5. In addition to engineering techniques such as wired/wireless/optical communication engineering, information engineering, and measurement/control, possess knowledge and opinions about the integrity of information and communication systems, which will be the pillars of future communications, and be able to contribute to various problems related to highly reliable communications that will support future society.

○ Program of Carbon Neutrality Science and Engineering

1. To possess knowledge about humanity, culture, society, and technology; be aware of the ethical, legal, and social effects of technological problems and their solutions; and be able to examine solutions from various perspectives.
2. To possess mathematical knowledge and understanding of subjects such as data analysis and advanced knowledge in multiple engineering fields.
3. To possess communication skills to communicate with teams and stakeholders to solve engineering problems, and be able to define one's own role and collaborate with other people.
4. To be able to analyze and detail engineering problems, conduct of literature research and study as necessary, and plan approaches and experiments in consideration of application in the real world to solve problems.
5. In addition to knowledge and techniques in engineering such as electrical/mechanical engineering, solid-state physics, and material chemistry, possesses knowledge and opinions on energy and environmental science, social infrastructure development, etc., and be able to contribute to solving various problems towards achieving carbon neutrality.

○ Program of Biomedical Science and Engineering

1. To possess knowledge about humanity, culture, society, and technology; to be aware of the ethical, legal, and social effects of technological problems and their solutions; and to be able to examine solutions from various perspectives.
2. To possess mathematical knowledge and understanding of subjects such as data analysis and advanced knowledge in multiple engineering fields.
3. To possess skills to communicate with teams and stakeholders to solve engineering problems, and to be able to define one's own role and collaborate with other people.
4. To be able to analyze and detail engineering problems, conduct literature research and study as necessary, and plan approaches and experiments in consideration of application in the real world to solve problems.
5. In addition to engineering technologies such as mechanical engineering, electrical/electronic engineering, information engineering, and social engineering, understand the challenges to their medical applications, etc., and be able to contribute to solving various problems in medical/welfare technology, rehabilitation, and healthcare research and development.

Curriculum Policy (Policy on the Formulation and Execution of the Education Program)

Graduate School Master's Course

This education curriculum has been formulated from the following perspectives for nurturing human resources according to our education philosophy.

The graduate school master's course nurtures human resources who will acquire advanced specialist knowledge while working on research and who will, by building on the skills of the bachelor's degree and the fundamental knowledge of and a sense of mission to engineering, create the society of the future.

- (1) To study human, cultural, and social problems from ethical, social, and other perspectives, and to acquire the ability to understand and observe these problems from a technical perspective.
- (2) To learn a wide range of mathematical information and acquire a wide range of engineering knowledge based on mathematical understanding.

- (3) To acquire good communication skills through working collaboratively with various people and carrying out practical problem-solving.
- (4) To master approaches to problem-solving by understanding the problems related to the use of technology by society and conducting field research.
- (5) To acquire advanced engineering knowledge and technology by achieving the goals of the program, and to learn skills to discover and solve technological problems.

Course of Study

The course of study is as follows in accordance with the Curriculum Policy.

○Program of Life and Materials Chemistry, Program of Soft Materials, Program of Advanced Ceramics, Program of Materials Function and Design, Program of Applied Physics, Program of Electrical and Electronic Engineering, Program of Mechanical Engineering, Program of Networks, Program of Computational Intelligence, Program of Multimedia and Human Computer Interaction, Program of Mathematics and Mathematical Science, Program of Architecture and Design, Program of Civil and Environmental Engineering, Program of Systems Management and Engineering

1. To study subjects that provide an understanding of human, cultural, and ethical perspectives.
2. To follow a planned course of study of subjects from the engineering curriculum, including mathematical information subjects.
3. To engage in discussions and debates through the execution of research projects and the presentation of project results, and learn from the implementing research of researchers both inside and outside Japan.
4. To acquire knowledge about industry and management, and understand the significance and effect of research on society by conducting field research.
5. To study the following for each program.

【Program of Life and Materials Chemistry】

To acquire knowledge and techniques in the field of life and materials chemistry, and to plan and execute solutions related to various problems in material design, synthesis, functional analysis, and their applications.

【Program of Soft Materials】

To acquire knowledge and techniques in the field of soft materials, and to plan and execute solutions to various problems related to material creation related to daily life and life sciences.

【Program of Advanced Ceramics】

To acquire knowledge and techniques in the field of advanced ceramics, and to plan and execute solutions to various problems related to ceramic materials concerning information communication, energy, medical care, etc.

【Program of Materials Function and Design】

To acquire knowledge and techniques in the field of materials function and design, and to plan and execute solutions to various problems in order to apply to the design, synthesis, and functionalization of metals.

【Program of Applied Physics】

To acquire knowledge and techniques in the field of applied physics, and to plan and execute solutions to various problems related to measuring and analyzing physical phenomena from nano to macro-scale, improving the performance of materials, nano-processing, and predicting materials and systems.

【Program of Electrical and Electronic Engineering】

To acquire knowledge and techniques in the electrical and electronic fields, and to plan and execute solutions to various problems related to equipment design, control, communication, device design, and energy conversion.

【Program of Mechanical Engineering】

To acquire knowledge and techniques in the field of mechanical engineering, and to plan and execute solutions to various problems related to equipment development, design, and manufacturing, as well as energy transportation, conversion, storage, and utilization.

【Program of Networks】

To acquire knowledge and techniques in the field of networks, and to plan and execute solutions to various problems related to communication and computer technology development that support an advanced information society.

【Program of Computational Intelligence】

To acquire knowledge and techniques in the field of computational intelligence, and to plan and execute solutions to various problems related to building an intelligent processing system that thinks and acts like a human.

【Program of Multimedia and Human Computer Interaction】

To acquire knowledge and techniques in the field of multimedia and human computer interaction, and to plan and execute solutions to various problems related to realizing media information systems based on human perception, cognition, sensibility, and sensations.

【Program of Mathematics and Mathematical Science】

To acquire knowledge and techniques in the field of mathematics and mathematical science, and to plan and execute solutions to various mathematical problems related to engineering, such as information, structure, and mathematical analysis.

【Program of Architecture and Design】

To acquire knowledge and techniques in the field of architecture and design, and to plan and execute solutions to various problems related to planning, design, and production of cities, architecture, spaces, and environments that surround people.

【Program of Civil and Environmental Engineering】

To acquire knowledge and techniques in the field of civil and environmental engineering, and to plan and execute solutions to various problems related to creating a strong national land, a safe, secure and sustainable urban society, and an attractive town.

【Program of Systems Management and Engineering】

To acquire knowledge and techniques in the field of management systems, and to plan and execute problem-solving skills in a wide range of fields and solutions to various management problems in society's diverse systems.

○Program of Future Communications

- 1: To study subjects that provide an understanding of human, cultural, and ethical perspectives.
- 2: To follow a planned course of study of subjects from the engineering curriculum, including mathematical information subjects.
- 3: To engage in discussions and debates through the execution of research projects and the presentation of project results, and to learn from the implementing research of researchers both inside and outside Japan.
- 4: To acquire knowledge about industry and management, and to develop clear ideas about future industries and society such as autonomous driving, mobility, robots, smart factories, and remote medical care brought about by advanced and reliable communications.
- 5: To acquire engineering knowledge and techniques related to communication and information engineering, such as devices, systems, and applications, and to plan and execute solutions to various problems related to future industry and society using advanced communication technology.

○Program of Carbon Neutrality Science and Engineering

- 1: To study subjects that provide an understanding of human, cultural, and ethical perspectives.
- 2: To follow a planned course of study of subjects from the engineering curriculum, including mathematical information subjects.
- 3: To engage in discussions and debates through the execution of research projects and the presentation of project results, and to learn from the implementing research of researchers both inside and outside Japan.
- 4: To acquire knowledge about industry and management, and to develop clear ideas about the role and position of carbon-neutral technology in future industry and society.
- 5: To acquire a wide range of engineering knowledge and techniques, and to plan and execute solutions to various problems related to a society that develops sustainably along with a healthy global environment.

○Program of Biomedical Science and Engineering

- 1: To study subjects that provide an understanding of human, cultural, and ethical perspectives.
- 2: To follow a planned course of study of subjects from the engineering curriculum, including mathematical information subjects.
- 3: To engage in discussions and debates through the execution of research projects and the presentation of project

results, and to learn from the implementing research of researchers both inside and outside Japan.

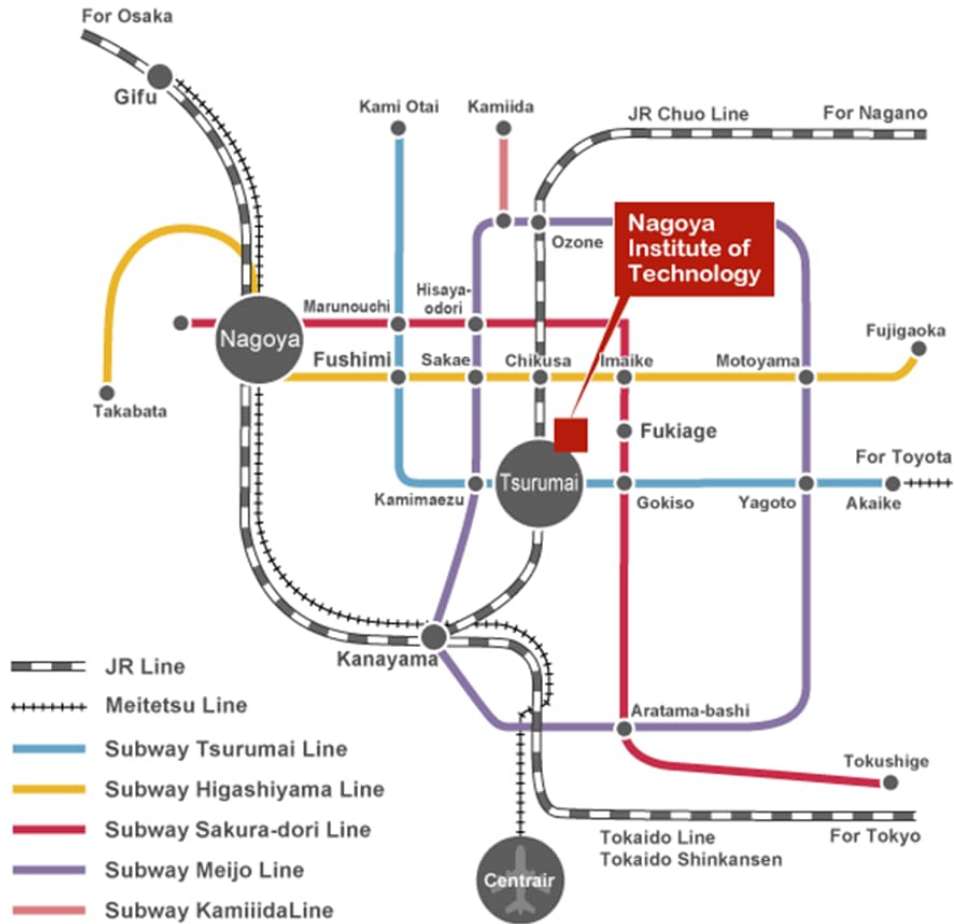
4: To acquire knowledge about industry and management, and develop clear ideas about the role and position of medicine and engineering in future society.

5: To acquire knowledge and techniques related to a wide range of engineering and medical applications, and to plan and execute solutions to various problems related to engineering technology that supports advanced medical technology.

Based upon the objectives of each subject, students' achievement will be impartially and rigorously evaluated, assessing the degree to which students have acquired the knowledge and abilities stated in the diploma policy.

As for the master thesis or research achievements of designated tasks, we specify the evaluation standards and methods, upon which reviews and final examinations will be conducted

Transportation Instructions for Getting to Nagoya Institute of Technology



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Gokiso-cho, Showa-ku, Nagoya City 466-8555

Telephone: +81-52-735-5083

NITech website: <https://www.nitech.ac.jp/eng/>