For Enrollment April 2021

Graduate School of Engineering

Master's Course

Admissions Guide

Application to NITech should be made online.

Nagoya Institute of Technology

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Graduate School of Engineering Master's Course Students Admissions Guide for Enrollment in April 2021

Education Philosophy

The education philosophy of Nagoya Institute of Technology is to "Aim towards 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 3 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 towards a sustainable society of the future.

Admissions Policy
(Policy on the admission of new students)

Graduate School Master's Course

In order 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, 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 2021

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 Students to be Admitted

Department	Program	Number of students to be admitted
Department of Engineering	Life Science and Applied Chemistry Program	375
	Physical Science and Engineering Program	
	Electrical and Mechanical Engineering Program	
	Computer Science Program	
	Architecture, Civil Engineering and Industrial Management Engineering Program	
	Innovation Program (The standard duration of study: one year)	

Note 1. In addition to this admissions period, Innovation Program (short-term course) is also admitting a few students in February 2021. The admissions guide for the Program will be released in late October 2020.

Note 2. The approximate number of students to be admitted of each program is as below.

Program	Approximate number of students to be admitted
Life Science and Applied Chemistry Program	104
Physical Science and Engineering Program	~~44~~
Electrical and Mechanical Engineering Program	96
Computer Science Program	71
Architecture, Civil Engineering and Industrial Management Engineering Program	50
Innovation Program	10

2. Eligibility Requirements

[1]. 5 Programs (Life Science and Applied Chemistry Program, Physical Science and Engineering Program, Electrical and Mechanical Engineering Program, Computer Science Program, or Architecture, Civil Engineering and Industrial Management Engineering Program)

Applicants must satisfy one of the following requirements:

(1) Applicants who have graduated from university or who expect to do so by March 31, 2021

(2) Applicants who have received, or expect to receive by March 31, 2021, a bachelor's degree as stipulated in Section 4, Article 104 of the of the School Education Act

(3) Applicants who have either completed 16 years of schooling overseas or expect to do so by March 31, 2021

(4) Applicants who, while residing in Japan, have completed, or expect to complete by March 31, 2021, 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 expect to complete by March 31, 2021, 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, 2021, 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 which 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 four-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, 2021

Note 1: Students applying under eligibility requirements (9), (10), (11), or (12) should refer to "Applying under Eligibility requirements (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

[2]. Innovation Program (short-term course)

Applicants who wish to enroll in Innovation Program (short-term course) must be working people who meet the aforementioned eligibility requirements [1], who can attend lectures during the day and evening, and who satisfy one of the following requirements.

- Applicants who have at least three years of practical experience (or who expect to have at least three years by the time of enrollment) in a technical field or business management field since graduating from university

・Applicants who have at least two years of practical experience (or who expect to have at least two years by the time of enrollment) in a technical field or industrial management field since graduating from university and have been recommended by a government agency in particular, or company or organization working actively for community cooperation

・Applicants recognized by the Graduate School of Engineering at NITech as having qualifications equal to or higher than those above.

3. Application Period

Tuesday, July 14 – Friday, July 17, 2020 (no later than 4:00 p.m. on Friday, July 17)

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. If mailing them, they must be received no later than 4:00 p.m. on Friday, July 17.
Please check details from "4. Application Procedure".

Application information registration (system input) is possible during the following period.
9:00 a.m. on Tuesday, July 7 – 3:00 p.m. on Friday, July 17, 2020

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. However, Applicants for admission to Innovation Program should contact the person in charge by email below about the name of your preferred academic adviser and your research proposal before consulting the adviser.
【Innovation Program contact information】e-mail: mta-info@lab-ml.web.nitech.ac.jp

4. Application Procedure

Those wishing to enroll, make careful confirmation of steps [1] – [3], and complete the necessary procedures.

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. •Credit card •Convenience store payment •Bank ATM (Pay-easy) •Online banking
(5) Payment of examination fee	Pay the examination fee through the payment method you selected.
(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 "[2] 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 "[2] 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 minutes, 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: 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 Versions

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

PDF Reading Software Versions

Windows	Macintosh
Adobe Acrobat Reader DC * "Reader" for Windows 8.1 and Windows 10 is not recommended. * PDF viewers for browsers are not recommended.	Adobe Acrobat Reader DC * Mac OS's preview is not recommended. * PDF viewers for browsers are not recommended.

(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 Versions

Android	iOS
Android 4.4.X or later Android Chrome * Be sure to start up the Chrome browser from the icon on the smartphone screen. Access using applications downloaded from Google Play (excluding Chrome) do not work properly.	iOS 9.X.X or later Safari * Be sure to start up the Safari browser from the icon on the smartphone screen. Access using applications downloaded from App Store do not work properly.

[1] 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 (30,000 yen) and bank transfer fee (990 yen) are required.
The process of registration application information over the internet is as stated in the separate "Internet Application Registration Process Guide" file.

(2) Data, etc. 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 "[2] 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 three 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 12.

Note 1: The application procedure is complete upon registering the information for application over the internet and submitting the documents written on page 6 of "[2] 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.

Note 2: Check the internet application registration site below in regard to details on examination fee payment methods, frequently asked questions, etc.

Note 3: If a student has large-scale natural disaster during the one year prior to the application, he or she may be exempt from paying the examination fee by applying the exemption. The example of the student who may be exempt is that 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

[2] Application Documents

After registering the application information in [1] of page 5 over the internet, compile the following documents, and submit them to the NITech Admissions 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 Admissions 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 downloaded 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 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. (This is not needed if you are applying for Innovation Program (short-term

		course).) (If it is not written in Japanese or English, a Japanese or English translation must be included.)
Other necessary documents	(5) Certificate of (expected) graduation (copy not allowed)	Submit an academic transcript issued by the president of your university, college, or technical college and so on. (If it is not written in Japanese or English, a Japanese or English translation must be included.)
	(6) Recommendation letter (no designated format)	This is only needed if you are applying for Innovation Program (short-term course). If the applicant is a business proprietor, he/she may instead submit proof of his/her status as a proprietor.
	(7) TOEFL-iBT or TOEIC L&R score report	Those who wish to use the TOEFL or TOEIC score in the foreign language (English) proficiency test, please carefully read the instructions in section 4 [3] (1). If you do not use the score, you do not need to submit this. (This is not needed for Innovation Program (short-term course).)
	(8) Return envelope for score sheet of (7)	For those mailing their application documents, and submitting the document (7) by 4 [3] (1) B or C, an envelope to return the score sheet is necessary 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).
	(9) Other	A. Prospective students from abroad, submit a copy of your certificate of residence with your status and period of stay written on it, or a copy of both sides of your residence card. B. If you are applying under eligibility requirement (2), "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. 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. a. certificate stating that you expect to complete advanced courses at a junior college or college of technology in which you are currently enrolled b. expected certificate of the college in which you are currently enrolled 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

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

[3] Important Points

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

Those who have TOEFL-iBT or TOEIC L & R score in the table below will be given a score of 100 points in the foreign language (English) test.

TOEFL-iBT	TOEIC L&R
８６ or more	７８０ or more

If you want to use the TOEFL-iBT or TOEIC L & R score as the foreign language (English) test score, please submit the required documents by one of the following A to C.

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 two 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 that the TOEFL score report has been arrived at NITech, please send us e-mail (nit.nyushi@adm.nitech.ac.jp) as follows:

Subject: TOEFL score report

Body of e-mail : ①Name (alphabet)
②TOEFL Test Date
③TOEFL Registration Number or Appointment Number
④Date 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.

*To be valid, your score sheet must be dated within two 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 12.

(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 already paid are not reimbursed for any reason other than the cases below.
   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 22, 2020.
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 Admissions 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, or other disability, and therefore need special care to enable you to attend the admission examination and graduate school programs.

(1) Date and consultation

By Friday, June 19, 2020

By the date above, you should inform the Admissions 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 12.

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.

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

8. Selection Process

(1) 5 Programs (Life Science and Applied Chemistry Program, Physical Science and Engineering Program, Electrical and Mechanical Engineering Program, Computer Science Program, and Architecture, Civil Engineering and Industrial Management Engineering Program)

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 NITech. NITech will reconfirm their preferred adviser with them in the interview etc., however in some cases, they may not be accepted their first preferred adviser.

A: Academic evaluation

(a) Field-specific examination (written examination, 300 points total)

9:00 to 12:00 on Thursday, August 20, 2020

On the field-specific examination (written examination), necessary subjects are given according to the research field of the preferred advisers after enrollment.

Question subjects and question scopes should be checked on page 13, "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)

13:00 to 14:00 on Thursday, August 20, 2020

In principle, all applicants should take the foreign language (English) examination.

However, if the TOEFL-iBT or TOEIC L & R score satisfies the table below and you submit the score, you do not need to take the foreign language (English) test because the foreign language (English) test score will be given as 100 points.

TOEFL-iBT	TOEIC L&R
８６ or more	７８０ or more

B: Interviews

Starting at 12:45 on Friday, August 21, 2020

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

C: Oral examination for working people

Thursday, August 20, 2020(Examination time will be announced from NITech)

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

(2) Innovation Program

Applicants will be selected based on a comprehensive assessment of the foreign language (English) examination and the field-specific examination in the form of an oral examination, and letter of recommendation. NITech will reconfirm their preferred field and adviser with them in the Oral examination, however in some cases, they may not be accepted their first preferred field and adviser.

Oral Examination: Friday, August 21, 2020 (Examination time will be announced from NITech.)

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 4, 2020, and also by mailing letters of acceptance to each successful applicant.

Results will not be available on the phone.

Additionally, 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 which will be sent at the end of November, 2020. The documents required for admission procedure will be included in the envelope with the Admission Procedure Guide.

Date and Time of Admission procedure	Location
Monday, December 21, 2020 9:00 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	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: Students who do not pay the tuition (for the first semester) during the admission process must pay it between Thursday, April 1 and Friday, April 30, 2021.

Note 4: The paid admission fee and tuition will not be returned in principle. However, in the case of persons who have completed the admission procedure but who decline to enroll by Wednesday, March 31, 2021, the relevant tuition will be returned upon request.

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

12. Public Information

The following information on the entrance examination for the master's Course at the Graduate School of Engineering in 2021will be disclosed.

(1) Application figures

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

(2) Examination questions

① Examination questions

Examination questions from the past three 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 2020.

(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) Period

Monday, September 7 to Friday, September 18, 2020

b) Way of request

At the Admissions Division counter or by mail, please submit the "Examination Result Disclosure Request"

(the form designated by the NITech), accompanied by the Examination Admission Ticket and a return-mail envelope for the examination result (a commercially available No. 2 envelope with your postal code, address and name written on it. Affix a 280-yen stamp).
If you submit the Request by mail, please contact Admissions Division beforehand.

③ Notification

Notification will be mailed to the applicant in early October 2020.

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 separately file "List of Advisers for Master's Course" for the necessary information to choose the preferred program, field and 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 two years (for at least one year for Innovation Program), 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 as well as their final examination.

※The students of Innovation Program (short-term course) can substitute their research paper for Master's thesis.

The research paper must be a report concerning foreseeable problems in pursuing practical study, a technical research paper related to marketing and product commercialization or the like.

16. Scholarship

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

• Notice Regarding Courses Specified by the Education and Training Benefit-System, Ministry of Health, Labour and Welfare (専門実践教育訓練給付金制度厚生労働大臣指定講座)

Innovation Program (short-term course) is a course specified by the Education and Training Benefit-System, Ministry of Health, Labour and Welfare.

Under this system, working people who are or have been insured with general employment insurance and have completed the education or training programs specified by the Ministry of Health, Labour and Welfare are eligible for aid in the form of Education and Training Benefit from Public Employment Security Office that cover part of the tuition paid for courses. The purpose of these benefit is to support primary of human resources development among workers and to facilitate employment stability and reemployment.

For details, please refer to the **"Courses Specified by the Education and Training Benefit-System"**, of Ministry of Health, Labour and Welfare.

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. International applicants who fall under any of the conditions set out in said regulations may be unable to enter their desired course or program.

[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.

Admissions 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 given as the list below; according to the research field of the preferred academic advisers after enrollment.
Please check the research field of professors on NITech website
(Research Field of Professor: Home > Research > Researcher Information).
URL: http://researcher.nitech.ac.jp/search?m=keyword)
List of advisers for Master's Course
(Home > Prospective Students > Programs > Master's Course)
URL: https://www.nitech.ac.jp/eng/admission/master.html

■Field of Life and Materials Chemistry: You must answer all the four questions.

Question No.	Question subject	Question scope
1	Organic chemistry	Structure, properties, reactions, and syntheses of organic compounds
2	Biochemistry, polymer chemistry	Synthetic polymer, biopolymer, biochemistry, molecular biology
3	Inorganic chemistry, analytical chemistry	Basic inorganic chemistry, coordination chemistry, electrochemistry, chemical equilibrium, separation analysis, and spectrometry
4	Physical chemistry, chemical engineering	Basic chemistry, chemical bonds, basic chemical engineering, transport phenomena

■Field 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.

■Field 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.

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

Question No.	Question subject	Question scope
11 (Common Subject)	Basic physical mathematics	Linear algebra, multivariable calculus, 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.

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

Question No.	Question subject	Question scope
11 (Common Subject)	Basic physical mathematics	Linear algebra, multivariable calculus, differential equation, vector calculus
15	Electromagnetics	Electric field, magnetic field, electric circuit, electromagnetic wave
16	Statistical mechanics	Canonical ensemble, free energy, Fermi/Bose statistics
17	Quantum mechanics	Basic principles, reflection and transmission characteristics, bound state of potential

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

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

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

Question No.	Question subject	Question scope
18 (Common Subject)	Control engineering	Laplace transform, transfer functions, block diagrams, system response, frequency response, system stability
22	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
23	Fluid dynamics	Hydrostatics, one-dimensional flow (including Bernoulli's theorem), momentum theory, dimensional analysis, pipe flow, basic equations of fluid mechanics, potential flow
24	Thermodynamics	First law, second law, ideal gas, general thermodynamic relations, gas cycles, steam cycles, effective utilization of thermal energy
25	Materials and processing	Basic matters of mechanics of plasticity; fundamental knowledge of basic machine materials

■Field of Networks, Computational Intelligence, and Multimedia and Human Computer Interaction: You must answer the three questions; No.26 to 28.

■Field of Mathematics and Mathematical Science: You must select three questions from No.26 to No 31.

Question No.	Question subject	Question scope
26	Computer software	Data structures and algorithms, formal language and automata
27	Computer hardware	Computer fundamentals, logic circuits, computer structure
28	Mathematics for computer science	Information theory, discrete mathematics
29	Calculus and linear algebra	Calculus and linear algebra (focused on calculation problems), but excluding ordinary differential equations
30	Mathematics 1	Complex analysis, vector analysis, differential equations (including Fourier series)
31	Mathematics 2	We test the applicant's mathematical thinking skills through a range of mathematics including probability, set theory and topology, and theoretical aspects of calculus and linear algebra

■Field of Architecture and Design: You must answer the question No.32 and select two questions from No.33 to 36.

Question No.	Question subject	Question scope
32	Basics of architecture and design (required subject)	Geometrical description, artistic drawing, figurative art, building construction method, building material design, structural design, environmental design, spatial design, urban design, history of architecture and design
33	Building materials, construction methods, structures, and environments	All aspects of building materials, construction methods, building structures, and architectural environments and building equipment
34	Architectural planning, history, and design	All aspects of architectural planning, urban design, architectural history and design, and architectural drafting
35	Design theory	All aspects of design theory
36	Design production	All aspects of design production

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

Question No.	Question subject	Question scope
37	Structural mechanics and concrete engineering for civil engineering	Structural mechanics and concrete engineering, in general, in the field of civil engineering
38	Hydraulics and geomechanics for civil engineering	Environmental hydraulics, soil mechanics and geotechnical engineering, in general, in the field of civil engineering
39	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

■Field of Systems Management and Engineering: You must answer the questions No.40 and No.41, and select one question from No.42 or No.43.

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

Applying under Eligibility Requirements (9), (10), (11), or (12)

Applicants applying under eligibility requirements (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, 2021

   (2) Applicants who have obtained at least 85% of the credits needed for graduation at their current university as of March 31, 2021

   (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 Admissions Division by 16:00 on Monday, May 18, 2020.

   (1) Application for the entrance eligibility

   (2) Statement of purpose

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

   Note 1: Please contact Admissions Division for application for the entrance eligibility above in (1).

   Note 2: Please download and use the statement of purpose form stated above in (2) 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 29, 2020.

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 make 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. [2] Application Documents" on page 6 to the Admissions Division by 4:00 p.m. on Monday, May~~8~~ 18, 2020.
   (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 in (2) 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 Monday, June 29, 2020.
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.

Life Science and Applied Chemistry Program, Physical Science and Engineering Program, Electrical and Mechanical Engineering Program, Computer Science Program, and Architecture, Civil Engineering and Industrial Management Engineering Program

1: 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 these perspectives.
2: Possess mathematical knowledge and understanding of subjects such as data analysis and advanced knowledge in multiple engineering fields.
3: Have the communication 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: Be able to analyze and break down engineering problems, conduct documentary research and other required learning, and plan appropriate approaches, experiments, and other means to solve these problems taking into consideration the application of such solutions in the real world.
5: Achieve the specific goals of each program.

Life Science and Applied Chemistry Program:

Possess atomic- and molecular-level knowledge of and have ideas about life science, materials, soft materials, and ceramics, and be able to contribute to solving various problems such as science technology problems and social problems from the perspective of achieving a material society that is in harmony with life.

Physical Science and Engineering Program:

Possess knowledge of and have ideas about areas such as materials science, energy, measurement and analysis, and simulation based on physical understanding, and be able to contribute to solving various problems from a physical perspective.

Electrical and Mechanical Engineering Program:

Possess knowledge of and have ideas about electrical power and communications, electronic engineering, materials engineering, thermal and hydraulic engineering, machining engineering, and control engineering, and be able to contribute to solving various problems in areas such as production, system design, welfare and medicine, and mobility from these perspectives.

Computer Science Program:

Possess knowledge of and have ideas about the mathematical principles used in communications, information processing, intelligence, and media; lead the future computer science field by gaining a deeper understanding of these principles; and be able to contribute to solving various problems in areas such as information utilization and services.

Architecture, Civil Engineering and Industrial Management Engineering Program:

Possess knowledge of and have ideas about productivity, value, safety, and diversity as related to cities, residential spaces, social systems, and the natural environment, and be able to contribute to their management, design, and conservation.

Innovation Program

1: 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 these perspectives.

2: Possess mathematical knowledge and understanding of subjects such as data analysis and advanced knowledge in multiple engineering fields.

3: Be able to discuss technological development and practical application with engineers in different fields and from various perspectives, thereby deepening understanding of these issues.

4: Be able to research and analyze relevant technologies from a variety of perspectives with respect to problems discovered in the practical application of technologies in companies and other areas of society, and make problem-solving and improvement proposals.

5: Possess knowledge in at least one engineering field, have the ability to analyze case studies of technology utilization, and be able to make technological improvements from the perspectives of marketing, strategic development, management and legal affairs, and technology management.

Curriculum Policy
(Policy on the formulation and execution of the education program)

Graduate School Master's Course

This education curricula 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 Study human, cultural, and social problems from ethical, social, and other perspectives, and acquire the ability to understand and observe these problems from a technical perspective.

2 Learn a wide range of mathematical information and acquire a wide range of engineering knowledge based on mathematical understanding.

3 Acquire good communication skills through working collaboratively with various people and carrying out practical problem solving.

4 Master approaches to problem solving by understanding the problems related to the use of technology by society and conducting field research.

5 Acquire advanced engineering knowledge and technology by achieving the goals of the program, and learn skills to discover and solve technological problems.

Course of Study

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

Life Science and Applied Chemistry Program, Physical Science and Engineering Program, Electrical and Mechanical Engineering Program, Computer Science Program and Architecture, Civil Engineering and Industrial Management Engineering Program:

1: Study subjects that provide an understanding of human, cultural, and ethical perspectives.

2: Follow a planned course of study of subjects from the engineering curriculum, including mathematical information subjects.

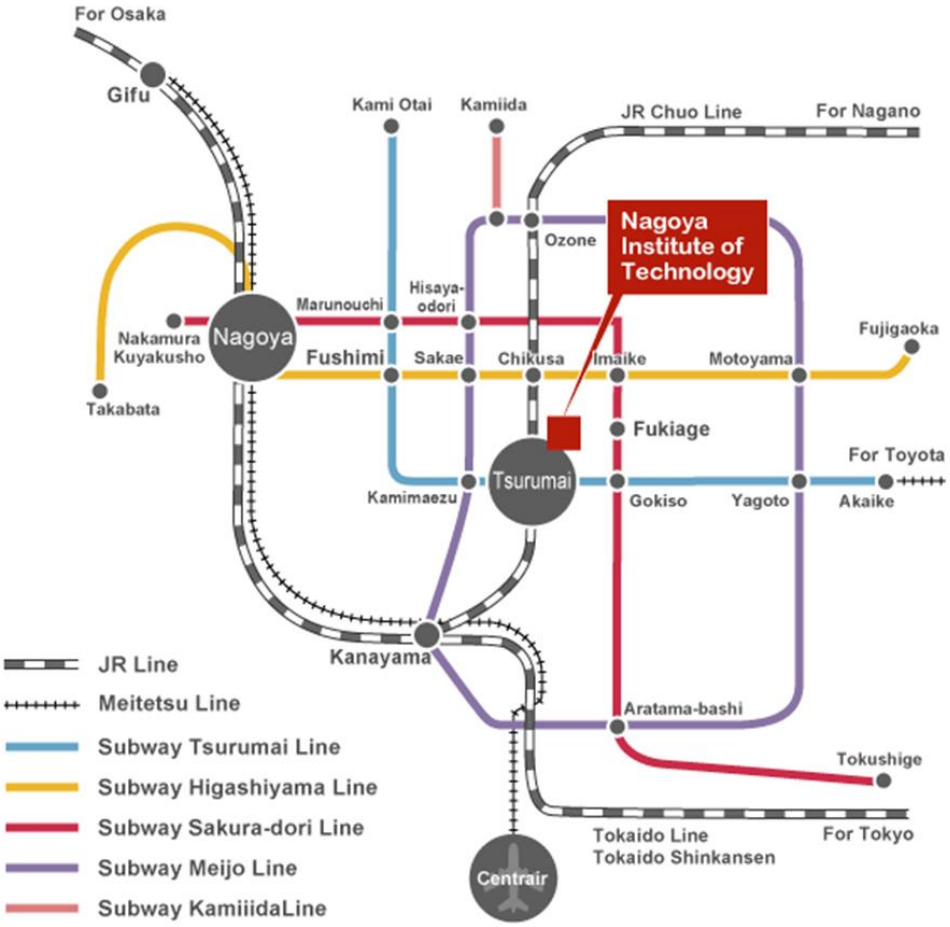
3: Engage in discussions and debates through the execution of research projects and the presentation of project results, and learn from the implementing research of researchers both inside and outside Japan.

4: Acquire knowledge about industry and management, and understand the significance and effect of research on society by conducting field research.
5: Study the following for each program.

Life Science and Applied Chemistry Program:
Acquire knowledge and technology in the fields of life science and applied chemistry, and use these to plan and execute solutions to various problems related to achieving a material society that is in harmony with life.
Physical Science and Engineering Program:
Acquire knowledge and technology in the fields of physical science and engineering, and use these to plan and execute solutions to various problems in areas such as materials science, energy, measurement and analysis, and simulation.
Electrical and Mechanical Engineering Program:
Acquire knowledge and technology in the fields of electrical and mechanical engineering, and use these to plan and execute solutions to various problems in areas such as production, system design, welfare and medicine, and mobility.
Computer Science Program:
Acquire knowledge and technology in the field of computer science, and use these to plan and execute solutions to various problems in areas such as information utilization and services.
Architecture, Civil Engineering and Industrial Management Engineering Program:
Acquire knowledge and technology in the field of architecture, civil engineering and industrial management engineering, and use these to plan and execute solutions to various problems in areas such as cities, residential spaces, social systems, environmental management, design, and conservation.

Innovation Program
1: Study subjects that provide an understanding of human, cultural, and ethical perspectives.
2: Follow a planned course of study of subjects from the engineering curriculum, including mathematical information subjects.
3: 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. Also, learn how to consider technologies and practical applications of technologies by using technology case studies and engaging in discussions from the perspectives of technology implementation, industry, and the environment.
4: Acquire knowledge about industry and management, and learn skills such as how to execute research projects. Also master examination methods relating to the social significance of research topics and results through discussions with other students.
5: Acquire advanced knowledge and technology in the field of engineering application, and use all knowledge to assess and improve technology utilization and problem solving.

Transportation Instructions for Getting to Nagoya Institute of Technology



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