

For Enrollment April 2021

Graduate School of Engineering

Master's Course

Admissions Guide

For Privately-Financed International Students

Application to NITech should be made online.

Nagoya Institute of Technology

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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 skills
- 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 17 and after.

Graduate School of Engineering Master's Course
Students Admissions Guide for enrollment April 2021
For Privately-Financed International Students

1. Programs and The Number of Places

Department	Program	Number of students to be admitted
Department of Engineering	Life Science and Applied Chemistry Program	A few
	Physical Science and Engineering Program	
	Electrical and Mechanical Engineering Program	
	Computer Science Program	
	Architecture, Civil Engineering and Industrial Management Engineering Program	

2. Eligibility Requirements

Eligible applicants are non-Japanese nationals (except those who have been given approval of permanent residence in Japan, and those who have graduated, or are expected to graduate, from a Japanese university), who hold the Status of Residence, “College Student” (*ryugaku*), or who will be able to obtain the same status after entering the graduate school; and to whom any of the criteria listed below apply.

If you apply for the graduate school before obtaining the status of College Student, as a prospective holder of the said status, be sure to change your status to “College Student” after completing the admission procedure without delay.

- ① Applicants who completed, or are expected to complete by March 31, 2021, a 16-year school education program in a country/region other than Japan.
- ② Applicants who completed, or are expected to complete by March 31, 2021, a 16-year school education program of a country/region other than Japan, by studying, in Japan, specific subjects via a correspondence course provided by an academic institution based in the said country/region.
- ③ 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 programs by taking the correspondence course subjects in Japan, which are provided by the schools overseas).
- ④ Applicants who completed, on or after a specific date designated by the Minister of Education, Culture, Sports, Science and Technology of Japan, a specialized course (*senmon katei*) of a specialized training college (*senshu gakko*) designated by the same Minister separately. (The aforementioned course shall comprise a program of at least four years, and shall satisfy other requirements and standards prescribed by the Minister.)
- ⑤ Applicants designated by the Minister of Education, Culture, Sports, Science and Technology:

The graduate school treats individuals described below as “persons recognized as having an academic ability equivalent to, or higher than, that of a university graduate”:

Applicants who completed a university education in a country/region where the period of schooling program until completion of its university education is less than 16 years; who were, or have been, engaged in research activities for a substantial period of time (approximately one year, or more) after completion of the university education, as a research student, researcher or the like at a university or a research institution equivalent to a university, such as an “inter-university research institute corporation,” located in or outside of Japan; and who will reach 22 years of age by March 31, 2021.

- ⑥ Applicants whom the Graduate School of Engineering of Nagoya Institute of Technology (NITech) (hereinafter “Graduate School”) individually screens for eligibility for admission application, and whom the Graduate School recognizes as having an academic ability equivalent to, or higher than, that of a university graduate

The individual screening for eligibility for admission application is conducted by examining the educational records, work experience, experience of international activities, and other specific records of the prospective applicant. To receive the screening at the Graduate School, please submit to the Admissions Division the documents specified below no later than 4:00 p.m. on Monday, May 18, 2020.

(1) Application for the entrance eligibility

(2) Statement of purpose

(3) Documentation showing the general information, curriculum and other educational programs of your school of graduation

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>).

Results of this individual screening and information regarding subsequent formalities will be sent to each prospective applicant by Monday, June 29, 2020.

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. Please check details from “4. Application Procedure”. 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.

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.

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	Mac OS 10.6 or later
Microsoft Edge	Safari
	Google Chrome

PDF Reading Software Versions

Windows	Macintosh
Adobe Acrobat Reader DC	Adobe Acrobat Reader DC
* “Reader” for Windows 8.1 and	* Mac OS’s preview is not recommended.

Windows 10 is not recommended. * PDF viewers for browsers are not recommended.	* PDF viewers for browsers are not recommended.
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(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 “16. 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 3, 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 download and use the statement of purpose form from the NITech website (https://www.nitech.ac.jp/examination/in/request.html).
	(4) Academic transcript	Submit an academic transcript issued by your university. (If it is not written in Japanese or English, a Japanese or English

	(copy not allowed)	translation must be included.)
	(5) Certificate of (expected) graduation (copy not allowed)	Submit a certificate of (expected) graduation issued by your university. (If it is not written in Japanese or English, a Japanese or English translation must be included.)
Other necessary documents	(6) 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.
	(7) Return envelope for score sheet of (6)	For those mailing their application documents and submitting the document (6) 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). However, if applicants live outside Japan, the sheet will be sent by Express Mail Service (EMS). Please enclose an international reply coupon in the value of a 100g airmail letter.
	(8) Copy of certificate of residence or Copy of both sides of your residence card	Submit a copy of your certificate of residence (<i>juminhyo</i>) indicating your <u>Status of Residence</u> and <u>Period of Stay</u> , or a copy of both sides of your residence card. If you have not been registered, please submit a copy of passport.
	(9) Documentation certifying your experience of research activities * Free format	Submit this documentation if you are subject to the application eligibility criterion (5). I.e., a documentation certifying that you “were, or have been, engaged in research activities for a substantial period of time (approximately one year, or more) after completion of university education, as a research student, researcher or the like at a university or a research institution equivalent to a university, such as an “inter-university research institute corporation,” located in or outside of Japan”

[3] Important Points

(1) Submission of TOEFL 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 will not 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 "16. 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 Order 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 "16 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

Applicants will be selected based on an overall assessment of the academic ability test results, the interview and their transcript. Applicants must take all the academic ability tests and interviews that are prescribed 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.

(1) Academic ability test

- ① Specialized examination (written examination: 200-points scale. convert 200 into 300)

Date: Thursday, August 20, 2020; 10:00 a.m. – 12:00 p.m.

On the examination day, applicants MUST answer, on-site, the questions specified for the program and the field of your choice on page 13 "Question Subjects and Question Scopes", Questions will be provided in Japanese and English. Answers may be given either in Japanese or English.

- ② Foreign language (English) examination (written examination, 100 points scale)

Date: Thursday, August 20, 2020; 13:00 a.m. – 14:00 p.m.

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.

To be valid, score sheets need to be dated within the two years prior to the submission period for this examination.

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

(2) Interview

Date: Friday, August 21, 2020; 12:45 p.m.

Individual interviews will be conducted to examine the applicant's motivation for research, aptitude, personality, etc.

9. Examination Site

Nagoya Institute of Technology, Nagoya city, Aichi prefecture

Detailed information will be provided on the examination day, in front of Building No. 2 on NITech campus.

10. Announcement of Successful Applicants and Admission Procedure

- (1) Successful applicants will be announced on the NITech website (<https://www.nitech.ac.jp/>) at 10:00

a.m., Friday, September 4, 2020, by posting their examinee numbers. Letters of acceptance will also be sent to such applicants. No inquiries by telephone will be accepted.

- (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	Annual amount: 535,800 yen (estimated)	{ First semester: 267,900 yen Second semester: 267,900 yen

Notes

- 1: If the admission fee and/or the tuition are revised by the admission or during the enrollment, the new admission fee and/or the tuition will be applied from the time of the revision.
- 2: NITech has a system whereby students can pay the tuition for both the first and second semesters at the time of paying the tuition for the first semester if they so wish.
- 3: Successful applicants who do not pay the tuition (for the first semester) at the time of the admission procedure must pay it between Thursday, April 1 and Friday, April 30, 2021.
- 4: The paid admission fee and tuition will not be refunded, in principle. However, in the case of persons who have completed the admission procedure but who decline the enrollment by Wednesday, March 31, 2021, the amount equivalent to the tuition will be refunded later, upon request from the person who paid the tuition.
- 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 will be disclosed regarding the entrance examination for the Master's Course of the Graduate School in 2020.

- (1) Applications figures, etc.

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

- (2) Examination questions, etc.

① Examination questions

Examination questions for the past three years are available on the NITech website. Note, however, that some questions may not be available, subject to the Copyright Act.

② Correct answers, sample answers (For questions to which correct answers or sample answers

cannot be provided, the aim of asking the question and the focus of evaluation will be explained.)

③ Method of disclosure

Information regarding examination questions, answers, etc., will be available on the NITech website in early September, 2020.

(3) Examination results

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

Comprehensive evaluation (A, B or C)

Examination results will not be disclosed to those who have been removed from the list of examinees due to absence from the examination(s) for one or more subjects.

② Request.

a) period

Monday, September 7 to Friday, September 18, 2020

b) Way to Request

At the Admission 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 long format No. 2 envelope with your postal code, address and name written on it, with a 280-yen stamp affixed).

If you submit the Request by mail, please contact Admissions Division beforehand.

③ Notification

The result will be mailed to each applicant in early October 2020.

13. Preference of 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.

14. Approval of Course Completion; Conferment of Academic Degree

A Master's Degree ("Engineering" or "Arts") will be conferred on a student who has attended the Master's Course of the Graduate School for no less than two years, who has acquired at least 30 credits from subjects specified in each Program, who has received necessary instructions and advice in his/her research, and who has passed the screening regarding the master's thesis and the final examination conducted by the Graduate school.

15. 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

16. Contact Information

For inquiries about Admissions 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

Questions subjects and Questions Scopes

The Specialized examination is given as the list below; according to the research field of the preferred advisers after enrollment.

Please check the research field of professors on NITech website

(Home > Research > Researcher Information).

URL: <http://researcher.nitech.ac.jp/search?m=keyword>)

The 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, Soft Materials, and Advanced Ceramics

You must select two questions from Question No.1 to Question No. 4.

Question No.	Question subject	Question scope
1	Organic chemistry	Structure, properties, reactions, and syntheses of organic compounds
2	Polymer synthesis	Chain-growth polymerization, step-growth polymerization, polymer reaction, characterization of polymers
3	Inorganic structure analysis and characterization	Inorganic structural chemistry, quantum chemistry, crystallography, structure analysis of inorganic materials, analytical chemistry of inorganic materials
4	Calculus and linear algebra	Calculus and linear algebra (focused on calculation problems), but excluding ordinary differential equations

■ Field of Materials Function and Design, and Applied Physics

You must answer the two questions: Question No.5 and No. 6.

Question No.	Question subject	Question scope
5	Materials science	Thermodynamics and phase diagram, crystallography and diffraction, solid state physics and material properties
6	Electromagnetics	Electric field, magnetic field, electric circuit, electromagnetic wave

■ Field of Electrical and Electronic Engineering

You must answer the two questions: Question No.7 and No. 8.

Question No.	Question subject	Question scope
7	Electric circuit	Direct current circuit, alternating current circuit (excluding three-phase alternating current), transient phenomenon
8	Electromagnetics	Static electric field, stationary current, static magnetic field, electromagnetic induction (excluding electromagnetic waves)

■ Field of Mechanical Engineering

You must select three questions from Question No.9 to Question No. 13.

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

■ Field of Networks, Computational Intelligence, Multimedia Human Computer Interaction, and Mathematics and Mathematical Science:

You must select two questions from Question No.14 to Question No. 19.

Question No.	Question subject	Question scope
14	Computer software	Data structures and algorithms, formal language and automata
15	Computer hardware	Computer fundamentals, logic circuits, computer structure
16	Mathematics for computer science	Information theory, discrete mathematics
17	Calculus and linear algebra	Calculus and linear algebra (focused on calculation problems), but excluding ordinary differential equations
18	Mathematics 1	Complex analysis, vector analysis, differential equations (including Fourier series)
19	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 two questions: Question No.20 and No. 21.

Question No.	Question subject	Question scope
20	Calculus and linear algebra	Calculus and linear algebra (focused on calculation problems), but excluding ordinary differential equations
21	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

■ Field of Civil and Environmental Engineering

You must answer the two questions: Question No.22 and No. 23.

Question No.	Question subject	Question scope
22	Calculus and linear algebra	Calculus and linear algebra (focused on calculation problems), but excluding ordinary differential equations
23	Basics of civil engineering	Structural engineering, hydraulics, geomechanics, urban planning and transportation, concrete technology

■ Field of Systems Management and Engineering

You must answer the two questions: Question No.24 and No. 25.

Question No.	Question subject	Question scope
24	Calculus and linear algebra	Calculus and linear algebra (focused on calculation problems), but excluding ordinary differential equations
25	Basics of management engineering	Operations research, quality management, production management, systems approach, business administration, risk management, organizational behavior

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.

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 field 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.

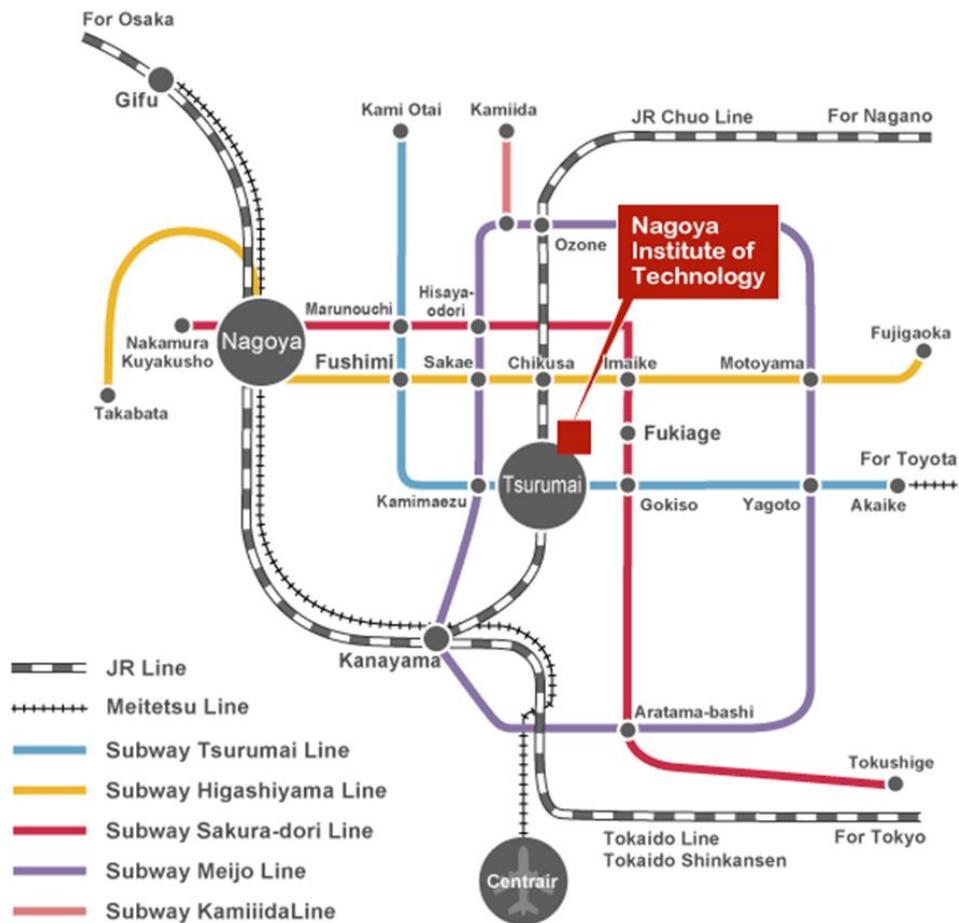
Computer Science Program:

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.

Transportation Instructions for Getting to Nagoya Institute of Technology



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