Application Guidebook for Admission
Graduate School of Pharmaceutical Sciences (Doctoral Program)
[Cooperative Major in Nanopharmaceutical Sciences]
Nagoya City University (NCU)
for Academic Year 2026

1. Number of students to be admitted

Cooperative Major in Nanopharmaceutical Sciences*… 4 students※

※This number is the total of students admitted through the general selection, special selection for working professionals, and October enrollment.

※The 2nd entrance exam may not be held if the maximum admission capacity is reached.

*The number of students enrolled in "International Program to Conjoin Brain Science and Society" (see P. 6) is included in the above number.

*This course, jointly established by the Graduate School of Pharmaceutical Sciences of Nagoya City University (NCU) and Nagoya Institute of Technology (NIT), aims to cultivate researchers and engineers, who are engaged in the development of new drug materials and drug delivery systems, and to nurture human resources with the ability to take up the drug development industry of Japan from a new perspective.
Students completing this course will be awarded the academic degree of "Doctor of Philosophy (Nanopharmaceutical Sciences)" by both universities in their joint names.

2. Eligibility for applicants

(1) A person who has a master's degree or is expected to graduate from master's course at a university by March 31, 2026
(2) A person who has obtained or is expected to obtain a master's degree or an academic degree equivalent to a master's degree at a foreign university by March 31, 2026
(3) A person who has obtained or is expected to obtain a degree equivalent to a master's degree in schooling program of the country outside Japan that is provided by correspondence education in Japan by March 31, 2026
(4) A person who has completed or is expected to complete a university educational program, approved by the Minister of Education, Culture, Sports, Science and Technology of Japan, at an institution outside Japan (it is limited to a person who is recognized to complete a master's degree schooling outside Japan) by March 31, 2026
(5) A person who has obtained or is expected to obtain a master's degree or an academic degree equivalent to a master's degree at United Nations University established based on United Nations General Assembly Resolution (December 11, 1972) defined by the Act on Special Measures Incidental to Enforcement of the "Agreement between the United Nations and Japan regarding the Headquarters of the United Nations University" (Act No. 72 of 1976) 1–1 by March 31, 2026
(6) A person who has completed a university educational program at an institution outside Japan or United Nations University, and has passed the examination that is defined in the Standards for the Establishment of Graduate School of Universities (No. 28 of Ministry of Education Ordinance in 1979) No. 16–2, and is recognized that a person has academic ability equivalent to or higher than those who have a master's degree by the Graduate School of Pharmaceutical Sciences of NCU
(7) A person approved by the Minister of Education, Culture, Sports, Science and Technology of Japan
(8) A person who has academic ability equivalent to or higher than those who have graduated from a university by the individual achievement test conducted by the Graduate School of Pharmaceutical Sciences, NCU, and who will be 24-year-old or more at the end of March 2026

Notice: Prior to submitting application materials to NCU, any applicants have to ask for a faculty member, from whom you wish to receive academic instruction, about research plan after you will enroll in the graduate school.

3. Eligibility screening

Any applicants who fall under qualifications (6), (7) or (8) of "2. Eligibility for applicants" need to request an eligibility screening prior to the application. Under the consultation with a faculty member of the specialized department (prospective supervisor), send the preliminary examination-application documents from post office by registered express mail to the address shown below. Please write "Application documents for preliminary examination to Ph.D.'s program of the Graduate School of Pharmaceutical Sciences, NCU" in red letters in the lower left section on the front of the envelope. The mail must arrive during the application period shown below **[must be received. The date of the postmark is not valid]**.

[1st application] from May 20 (Tue) to May 22 (Thu), 2025
[2nd application] from November 12 (Wed) to November 14 (Fri), 2025

The mail sent from outside Japan will not be accepted. If applying from outside Japan, be sure to entrust your application procedure to a proxy residing in Japan.

The preliminary examination-application documents: (Use the prescribed form of NCU)

(1) Application for preliminary examination
(2) Curriculum Vitae
(3) Reasons for application
(4) Certificate of research experience
(5) List of research achievements
(6) Self-addressed reply envelope with 410-yen postage stamp(s)（Clearly indicate your receiving address.）
(7) ② and ③ described in the following "5. Application documents, etc."

Notifications from NCU will be addressed to your proxy. The result will be notified two days before "4. period of application." If you do not receive the notice, please ask for Student Affairs Division, Administration Office of NCU.

4. Period of application

[1st application] June 25 (Wed)－July 1 (Tue), 2025 [must be received]
[2nd application] December 11 (Thu)－December 17 (Wed), 2025 [must be received]

Must be sent by post. Delivery in-person is not accepted.
Fill out the required items on the cover which is designated by NCU and paste the cover on the envelope (240 mm × 332 mm) prepared by yourself. Enclose the application documents in the envelope above and send them by registered express mail.
No Application forms are received in-person at the office or outside the designated period of application **(The date of the postmark is not valid)**. After your application documents, etc. are accepted, you will receive your examination admission card and instructions for examination from the Administration Office.
If you do not receive them within a week after application deadline, please be sure to contact the Student Affairs Division, Administration Office of NCU.

Application documents must be sent by post to

Nagoya City University
Student Affairs Division, Administration Office of NCU
1, Kawasumi, Mizuho-cho, Mizuho-ku, Nagoya, Aichi 467-8601, Japan

Application by post from outside Japan will not be accepted. <u>If applying from outside Japan, be sure to entrust your application procedure to a proxy residing in Japan.</u> Notifications from NCU will be addressed to your proxy.

5. Application documents, etc. (Fill out in Japanese.)

Documents, etc.		Description
①	Application for admission/ Photo identification card/Examination admission card/ Curriculum Vitae (reverse side of application form)	**[Use the prescribed form of NCU]** • Affix your color photograph (4 cm high x 3 cm wide) to the application form. The photograph should be taken within 3 months prior to the application, showing your upper body and bare head, directly facing the camera, and with no background. • Enter the address at which you are (or a proxy is) certain to be contactable. • In "Academic Background," start with your initial admission to university. • If you have work experience, provide the details in "Career." • If you have received school education outside Japan, fill in all of your school education from elementary education (equivalent to elementary school) to higher education (equivalent to university education).
②	Transcript	• Submit a transcript prepared by the president of the university that you are enrolled in or have graduated from. • A photocopy is acceptable only if a reissued transcript is not available. To verify its authenticity, be sure to present the original during the admission procedure. • If your academic transcript is prepared in a foreign language, prepare a Japanese translation in any form, and attach it to the original transcript. Do not write the Japanese translation directly on the original transcript.
③	Diploma (graduation letter), Certificate of completion (expected completion) of master's degree	• Submit your diploma prepared by the president of the university that you are enrolled in or have graduated from. • If you have completed (or are expected to complete) a graduate school, submit the certificate of completion (or expected completion) of the graduate school, together with the university diploma, etc. • If you apply under qualifications (2) or (5) of "2. Eligibility for applicants," submit a document certifying your eligibility. • If you apply under qualification (7) of "2. Eligibility for applicants," submit documents certifying your eligibility and offer certificate published by university or the institution outside Japan. • Photocopies are acceptable only if your diploma and/or certificate cannot be reissued. To verify their authenticity, be sure to present the original during the admission procedure. • Prepare a Japanese translation in any form and attach it to the original certificate. Do not write the Japanese translation directly on the original certificate.
④	Abstract of master's thesis or its alternative document	Submit an abstract of master's thesis (A4, 2 pages). Applicants without a master's degree must submit the alternative documents on their research (A4, 2 pages).
⑤	Letter of acceptance from the supervisor	**[Use the prescribed form of NCU]** Consult with the faculty member of your first choice, from whom you wish to receive academic instruction, about research planning, etc. before submitting your application. Submit an acceptance letter with the signature of the prospective supervisor.
⑥	Examination fee (30,410 yen)	• Fill out the bank transfer request form (prescribed form of NCU) with required information and transfer 30,410 yen (Examination fee 30,000 yen + Express mail fee to send the admission card 410 yen) from a bank or other finance institution. * Japan Post Bank or Yucho Bank are not acceptable. Do not use ATM, etc.; use only a teller for transfer. * Remittances from overseas to Japan are not accepted. * The relevant bank fees will be charged to the applicant. • Submit the "Examination Fee Payment Certificate (Slip B)" received from the bank, etc. after the transfer procedure, together with other application documents. (Do not submit the "Receipt of Transfer Amount (and Transfer Fee) (Slip A)," which should be retained by you.) * The examination fee is not refundable in principle. (See (4) of "12. Cautions.")
⑦	Mailing label	**[Use the prescribed form of NCU]** The mailing label will be used to notify you of the admission decision. Write the

		proper address and name.
⑧	Residence certificate (only for applicants who have foreign nationality)	• If you are a foreign national and eligible for residence in Japan, submit residence certificate that does not contain the Social Security and Tax Number. • If your visa status is for short-term residence, submit a photocopy of the Japan entry visa stamped in your passport. • If you are residing in a foreign country, submit a photocopy of your passport.
⑨	Document for interview test	**[Use the prescribed form of NCU]** • Bring the document to NCU on the interview day. The number of copies necessary will be informed when sending the examination admission card. • List your academic achievements, such as academic conference presentations and papers, in order of most recent. Applicants who are employed or graduates can also list achievements at the last school attended. • Along with the above document, applicants also need to submit a document (A4, 2 pages, free format) that describes your current research at a university, graduate school, or office. Applicants who are employed or have graduated can describe their research at the last school attended. ＜The University Website＞ https://www.nagoya-cu.ac.jp/admissions/graduate/phar/index.html
⑩	Envelope to submit the application documents	Fill out the required items on the cover, designated by NCU, and paste the cover on the envelope (240 mm × 332 mm) prepared by yourself. You can download the cover from the website of NCU. Enclose the application documents in the envelope and send them by registered express mail. ＜The University Website＞ https://www.nagoya-cu.ac.jp/admissions/graduate/phar/index.html

＊1 If you have taken the eligibility screening for examination prior to application, it is not necessary to submit the application documents ② and ③ when you apply.

＊2 If the name written on your "Academic Transcript," "Diploma" or other certificates is different from your current name, provide the document to prove that your name has been changed (e.g., family register).

6. Prior consultation with applicants with a disability

A person with a disability who needs extra care for taking an entrance examination or studying has to notify Student Affairs Division.

7. Schedule and method of selection for admission

(1) Schedule, subject, etc.

Details will be provided in the instructions for the examination, mailed to applicants together with their examination admission card.

Examination date	Examination time	Examination subject
1st application August 5 (Tue), 2025 2nd application January 27 (Tue), 2026	10:00－	Written or oral examinations on specialized subjects, English, master's thesis abstracts, etc.
	13:30－	Interview

(2) Examination location

Graduate School of Pharmaceutical Sciences, Nagoya City University (3-1, Tanabe-dori, Mizuho-ku, Nagoya)

(3) Selection

Selection will be made based on overall consideration of the abstract of the master's dissertation or equivalent, academic transcript, etc., and the results of the examination (major subject, English, and interview).

8. Announcement of examination results

【1st application】August 18 (Mon), 2025 at 10:00
【2nd application】February 3 (Tue), 2026 at 10:00

The examination results will be posted at the entrance of Graduate School of Pharmaceutical Sciences, NCU, and the Administration Office will send a letter of acceptance to each applicant on the day.

※Successful applicants should make sure that important documents needed for admission procedure will be sent by Letter Pack mail.

※If you do not receive the documents within a week from the announcement, please contact Student Affairs Division, Administration Office of NCU.

9. Admission procedure

(1) Date of procedure

【1st application】September 3 (Wed), 2025
【2nd application】Mid-February, 2026

Successful applicants (or their proxies) will be notified of the specific date in a document, sent with the letter of acceptance.

(2) Details of procedure

Details on the admission procedure will be announced by the documents in the Letter Pack.

(3) Payments required for admission

a. Admission fee	Nagoya City residents, etc.	232,000 yen
	Other applicants	332,000 yen

※Applicants who will proceed to this doctoral program immediately after completing the master's course of this graduate school are exempted from the admission fee payment.

b. Disaster and Accident Insurance for Student Education and Research ("Gakkensai")	2,600 yen
c. Liability Insurance coupled with "Gakkensai"	1,020 yen

Note 1: The admission fee should be paid through a financial institution before the admission procedure. **The paid admission fee is not refundable.**

Note 2: "Nagoya City residents, etc." refers to enrolled students who can certify by a resident card that (1) the students or (2) their spouse or a first-degree family member have had an address within Nagoya City for at least one consecutive year beginning from the day before the date of admission.

Note 3: The current fee listed above may be subject to change at the time of your admission, and any revisions will be informed immediately.

10. Tuition

Annual fee 535,800 yen (267,900 yen for a semester)

Note 1: After admission, tuition fees should be paid twice a year (for the 1st and 2nd semesters) through an automatic withdrawal from your account.

Note 2: The current tuition fee shown above may be subject to change during your study at NCU, in which case the revised tuition fee will apply.

Note 3: Graduate School of Pharmaceutical Sciences may charge additional cost without any advance notification.

11. Scholarship system

The loan-type scholarship program of the Japan Student Services Organization (JASSO) is available to graduate students. Students who wish to apply for the scholarship will be reviewed and recommended by NCU based on their academic achievement, research ability, etc.

12. Cautions

(1) Applications lacking necessary documents will not be accepted.
(2) Applicants, found to have made false statements in their application documents, may have their admission revoked even after enrollment.
(3) Application documents, etc. will not be returned.
(4) The examination fee is not refundable in principle. However, the paid examination fee (excluding bank transfer fee) is refunded in any of the following cases.
   1. The examination fee was transferred twice.
   2. The application documents were not submitted after the examination fee was transferred (or the application was not accepted).
(5) If your return address changes, please notify the Office of new address immediately.
(6) As a rule, double enrollment is prohibited.

13. Treatment of your personal information

NCU treats your personal information in accordance with the Act on the Protection of Personal Information of Nagoya City.

(1) Use of your personal information
   a. Your name, address and other personal information given in application documents, etc. are used for our operations of selection for admission (e.g., application registration, selection, examination result announcement, admission procedure).
   b. Your personal information used for selection for admission (e.g., academic transcript) may be used as reference material for investigative research and academic research to improve future selection for admission and graduate education. (Investigative research results are announced in such a way that individuals cannot be identified.)
   c. After you are admitted, your personal information is used for operations related to educational affairs (e.g., enrollment management, schooling guidance), student support (e.g., health control, tuition waiver, application for scholarship, job placement support), and tuition collection.

(2) Entrustment of operations to external business operators
   The operations of (1) above may be entrusted to some external business operators under an agreement with them for proper treatment of personal information.

14. International Program to Conjoin Brain Science and Society

(1) Along with the adoption by MEXT, this program invites the designated number of international students from the priority areas designated by MEXT members into the 2-year Master program or the 3-year Doctoral program, and through the lectures, seminars and other academic activities held in English, educate them to become young researchers who have acquired the global level of brain and mental health area.
(2) A limited number of applicants will be admitted.
(3) Students of this program will be determined through the internal selection from those who have passed the Doctoral Program entrance exam.
   *Students of this program is required to simultaneously satisfy the requirements of both their major in the graduate school and this program.

15. Admission policy

Admission policy of Graduate School of Nagoya City University

Nagoya City University (NCU) aims to be a university in which all citizens feel pride and affinity. In graduate education, based on our recognition that research guidance for graduate students is a challenge in offering research activities. We aim to cultivate researchers and professionals who can gain advanced expertise and an interdisciplinary thinking.
With this philosophy and aim, the graduate school is widely looking for individuals who possess advanced expertise and an eagerness and aptitude for activity both within Japan and abroad, in addition to diverse skills and work experience.

Admission policy of Graduate School of Pharmaceutical Sciences

(1) «Philosophy, Purpose, Educational Goals»

Cooperative Major in Nanopharmaceutical Sciences aims to foster researchers and technical experts with creative and outstanding ability who can execute innovative research in pharmaceutical life sciences, drug discovery science, etc., by acquiring a broad knowledge and deep expertise about pharmaceutical sciences and engineering. In addition, we also aim to develop human resources with prominent ability to play an active part in education, public administration, etc. with wide view and high ethics. In order to cultivate these diverse and highly specialized human resources, we welcome following students.

(2) «Profile of students sought»

- Students who are willing to perform cutting-edge research outcomes, to transmit them to the world, and contribute to society
- Students who are motivated to acquire problem-finding and -solving abilities through the process of publishing research results
- From the point of view of developing diverse human resources, students who have different academic backgrounds and are willing to perform researches in the fusional fields of pharmaceutical sciences and engineering
- Students who have a strong interest in nanomaterials and nanodevices, and aim to become researchers familiar with both pharmaceutical sciences and engineering
- From the point of view of developing international human resources, students from overseas who want to perform researches in the fusional fields of pharmaceutical sciences and engineering

(3) «Contents and level of required knowledge, abilities and skills»

- In addition to the basic ability of material sciences and life sciences, advanced knowledge and basic experimental techniques in related research fields
- In addition to the basic language ability, language skill necessary for preparing research manuscripts, presentations, and discussions at international meetings

(4) «Selection method»

Students with basic academic skills in materials and life sciences, knowledge and skills in related fields, and necessary language skills will be selected by the following method.

[General selection]

Selection of applicants is based on comprehensive review of the master's thesis abstract, transcripts, examinations (major subjects), foreign language (English) and interviews.

The language skills required for research will be evaluated by reading and comprehending English papers. In addition to the basic academic skills in materials science and life science required to carry out research, advanced knowledge and skills in related fields will be evaluated by examining the major subjects and a summary of the master's thesis.

In addition, an interview will be conducted to assess whether the applicant meets the requirements of the student profile, including basic academic skills and knowledge, motivation and will for research, as well as a desire to conduct research that integrates pharmaceutical sciences and engineering, a strong interest in nanomaterials and nanodevices, and a desire to become a researcher with expertise in both pharmaceutical sciences and engineering. The selection process is based on a combination of these results and the evaluation of transcripts.

[Special selection for working people]

The selection process is the same as that for the general selection, but in the interview and other tests, we evaluate whether the applicant is a person who, based on his or her work experience at a company or other organization, aspires to conduct fusion research in the doctoral course, wants to return the results of his or her research to society, and aims to acquire advanced academic knowledge and experimental skills as a professional.

Joint graduate school

1. What is a graduate school whose curricula are jointly formulated (joint graduate school)?

   It is a graduate school that utilizes a system that enables more than one university to jointly implement curricula and award a single degree under their joint names in order to maximize the utilization of educational and research resources and promote high-quality education and research that allow for contribution to the vitalization of regions and the initiation of interdisciplinary and advanced fields.

2. Main features of this joint graduate school

   (1) Degrees are awarded in the joint names of NCU and NIT.
   (2) The students will be enrolled in both NCU and NIT, but mainly in the university of the full-time faculty member supervising the research (main supervisor), and will be able to receive the same services as other students of the university. Students are also permitted to receive certain services, such as library use, at the other university. Note, however, due to circumstances at each university, there may be some facilities not accessible to the student.
   (3) A student is permitted to receive research guidance from a faculty member of the other university at which the student is not based (assistant preceptor).
   (4) Students attend lectures of the joint graduate school at NCU and NIT.

Important information

1. About the university to which you should apply, the university at which you will take the exam, and the university at which you will be affiliated

   Applicants who wish to receive academic instruction from a full-time faculty member of NCU, apply to NCU and take an examination at NCU. After enrollment, the affiliated university will be NCU, and you will be treated as a student of NCU for admission procedure, tuition fee payments, scholarship application, etc.
   Applicants who wish to have a full-time faculty member of NIT as their main supervisor apply to NIT and take an examination at NIT.

2. This cooperative major in Nanopharmaceutical Sciences does not allow applicants to apply to both NCU and NIT.

Notifications from NCU in case of emergency
In case of emergency (e.g., occurrence of disaster) or if changes are required to the contents of this application guidebook, students will be notified those changes through the website of NCU. Particularly as the examination day draws near, pay close attention to the website of NCU. Applicants may also be directly contacted. In your application documents, therefore, be sure to provide contact details where you can always be reached.

NCU Website https://www.nagoya-cu.ac.jp/

A ban on smoking in the premises
NCU has banned smoking in the premises. All students are requested to observe this policy, and asked to further cooperate by not smoking on roads and alleys around NCU.

Outline of Curricula

Division		Class subject	Assigned year	University	Number of credits			Class mode			Faculty member				
					Com-pulsory	Eelec-tive	Free	Lecture	Exer-cise	Exper-iment, prac-tice	Profes-sor	Asso-ciate prof.	Instuc-tor	Assist-ant prof.	Assist-ant
Major Core Subject		Introduction to Inovative Therapeutics Science 1	1-1st semester	NCU		1		○			2				
		Introduction to Inovative Therapeutics Science 2	1-1st semester	NIT		1		○			2				
		Introduction to Drug Delivery and Biopharmaceutics 1	1-1st semester	NCU		1		○			1				
		Introduction to Drug Delivery and Biopharmaceutics 2	1-1st semester	NIT		1		○			2				
		Introduction to Nanoengineering for Medicine 1	1-1st semester	NCU		1		○			1	2			
		Introduction to Nanoengineering for Medicine 2	1-1st semester	NIT		1		○			1				
		Exchange Training between Pharmacy and Engineering	1-2nd semester	NCU, NIT	2				○		10	3	3	1	
		Subtotal (7 subjects)	—		2	6		—			—	—	—	—	—
Specialized Subject	Functional Drug Development Sciences Discipline	Innovative Drug Discovery 1	2-2nd semester	NCU		1		○			1		1		
		Innovative Drug Discovery 2				1		○			1		1		
		Advanced Organic Synthesis	2-1st semester	NIT		2		○			1				
		Advanced Study on Innovative Therapeutics Science 1	2-1st semester	NCU, NIT	2				○		4		2	1	
		Advanced Study on Innovative Therapeutics Science 2	2-2nd semester	NCU, NIT	2				○		4		2	1	
		Advanced Study on Innovative Therapeutics Science 3	3-1st semester	NCU, NIT	2				○		4		2	1	
		Advanced Study on Innovative Therapeutics Science 4	3-2nd semester	NCU, NIT	2				○		4		2	1	
		Subtotal (6 subjects)	—		8	4		—			—	—	—	—	—

Division		Class subject	Assigned year	University	Number of credits			Class mode			Faculty member				
					Com-pulsory	Eelec-tive	Free	Lecture	Exer-cise	Exper-iment, prac-tice	Profes-sor	Asso-ciate prof.	Instuc-tor	Assist-ant prof.	Assist-ant
Specialized Subject	Drug Delivery and Dynamic Science Discipline	Advanced Pharmaceutics and Drug Delivery1	2-2nd semester	NCU		1		○			1			1	
		Advanced Pharmaceutics and Drug Delivery2				1		○			1			1	
		Molecular Designs for Life Science	2-1st semester	NIT		2		○				1	1		
		Advanced Study on Drug Delivery and Biopharmaceutics 1	2-1st semester	NCU, NIT	2				○		3	1	1		
		Advanced Study on Drug Delivery and Biopharmaceutics 2	2-2nd semester	NCU, NIT	2				○		3	1	1		
		Advanced Study on Drug Delivery and Biopharmaceutics 3	3-1st semester	NCU, NIT	2				○		3	1	1		
		Advanced Study on Drug Delivery and Biopharmaceutics 4	3-2nd semester	NCU, NIT	2				○		3	1	1		
		Subtotal (6 subjects)	—		8	4		—			—	—	—	—	—
	Drug-Aid Nanoengineering Discipline	Soft Matter Physics and Chemistry for Medicine 1	2-2nd semester	NCU		1		○			1	2			
		Soft Matter Physics and Chemistry for Medicine 2				1		○			1	2			
		Micro-nano Biomechanics	2-1st semester	NIT		2		○			1				
		Advanced Study on Nanoengineering for Medicine 1	2-1st semester	NCU, NIT	2				○		3	2			
		Advanced Study on Nanoengineering for Medicine 2	2-2nd semester	NCU, NIT	2				○		3	2			
		Advanced Study on Nanoengineering for Medicine 3	3-1st semester	NCU, NIT	2				○		3	2			
		Advanced Study on Nanoengineering for Medicine 4	3-2nd semester	NCU, NIT	2				○		3	2			
		Subtotal (6 subjects)	—		8	4		—			—	—	—	—	—

Division	Class subject	Assigned year	Universi ty	Number of credits			Class mode			Faculty member				
				Com-	Eele	Free	Lecture	Exer-	Exper-	Profes-	Asso-	Instuc-	Assist-	Assist-

				pulsory	c-tive			cise	iment, prac-tice	sor	ciate prof.	tor	ant prof.	ant
Interdisciplinary subject	Special Topics in Chemical Biology: Chemical Sensors & Devices	1-2nd semester	NCU		1		○			1				
	Advanced Biopharmaceutics and Cellular Biophysics	1-2nd semester	NCU		1		○							
	Advanced Biological Chemistry and Molecular Biology	1-1st semester	NCU		1		○							
	Advanced Molecular and Cellular Pharmacology and Neurophamacology	1-1st semester	NCU		1		○							
	Advanced Catalyst Nano Technology	1-1st semester	NIT		2		○			1				
	Medical Nanotechnology	1-1st semester	NIT		2		○			1				
	Advanced Pharmaceutical Sciences	1-2nd semester	NIT		1		○			1				
	Bioethics in Research and Practice	1-1st semester	NCU		1		○							
	Advanced Course on Pharmaceutical Industry	1-1st semester	NCU		1		○			1				
	Advanced Fusion Sciences of Pharmaceutics and Engineering	1-2nd semester	NCU		1		○			1				
	Advanced Course on Contemporary Intellectual Property	1-1nd semester	NIT		1		○							
	Technology internship	1-1st and 2nd semesters	NCU, NIT		2			○		10	3	3	1	
	Global Presentation	1-1st and 2nd semesters	NCU, NIT		2			○		10	3	3	1	
	Subtotal (13subjects)	—		0	17		—			—	—	—	—	—
Total (38subjects)		—		26	35					10	3	3	1	

Degree or title	Doctor (Nanomedicine science)	Field of degree or subject		Pharmaceutical- and engineering-relevant
Graduation requirements and how to take subjects		University in	Number of offered	Class term, etc.

	charge	credits (requisite)		
Take 4 credits of non-major subjects from the major core subjects, 6 or more credits of elective subjects from the specialized subjects, and 10 or more credits of subjects offered by the partnership university to make a total of 20 or more credits. For “Exchange Training between Pharmacy and Engineering ”, “Advanced Study1 ”, and “Advanced Study3 ” take subjects offered by the partner university.	NCU NIT	46 (26) 45 (26)	Division of an academic year by term	2 terms
			Duration per term of an scholastic year	15 weeks
			Class hours per period	90 minutes

Full-Time Faculty Members

(As of Apr. 2025)

Faculty member in charge					Assigned subject	Research theme
Nagoya City University	Functional Drug Development	Professor	Noaki Umezawwa	Doctor (Pharmaceutical sciences)	Special Study of Functional Drug Development Next-Generation Drug Development Sciences (1, 2) Introduction to Functional Drug Development Study 1 Pharmaceutical-Engineering Cooperative Special Practice Technology Internship Global Presentation	1. Development of a medical treatment for adult diseases and immunological diseases targeting at cellular stress 2. Development of a new molecular targeting treatment for intractable cancer 3. Clarification of the molecular mechanism of cancer metastasis, and development of a new medical treatment for cancer metastasis 4. Clarification of a new expression control mechanism for drug-metabolizing enzyme, and its application 5. Chemistry of enzyme and enzyme models 6. Development of a functional molecule useful for clarification of biotic functions 7. Rational design, synthesis and activity evaluation of drug lead compounds 8. Development of functional molecules based on a new concept
		Professor	Yasumichi Inoue	Doctor (Pharmaceutical sciences)		
		Assistant Professor	Chiharu Miyajima	Doctor (Pharmaceutical sciences)		
		Assistant Professor	Yousuke Hisamatsu	Doctor (Pharmaceutical sciences)		
		Research Assosiate	Ryosuke Ishida	Doctor (Pharmaceutical sciences)		
	Drug Delivery and Dynamic Science	Professor	Tetsuya Ozeki	Doctor (Pharmaceutical sciences)	Special Study of Drug Delivery and Dynamic Science Formulation Design and Drug Delivery Control Study (1, 2) Introduction to Drug Delivery and Dynamic Sciences 1 Pharmaceutical-Engineering Cooperative Special Practice Technology Internship Global Presentation	1. A nanotargeting drug delivery system (DDS) for administration to brain cancer and various carcinomas 2. DDS for administration of fine particles to lungs 3. Nanocarrier as DDS (liposome, gold colloid, etc.) 4. Formulation design for low-solubility, low- absorbability medical substances
		Assistant Professor	Koki Ogawa	Doctor (Pharmaceutical sciences)		
	Drug-Aid Nanoengineering	Professor	Jyunpei Yamanaka	Doctor (Engineering)	Special Study of Drug-Aid Nanoengineering Formulation Design and Drug Delivery	1. Study of physical properties of soft matter (colloid, high molecule, gel, etc.), and application of the soft matter to the medical

		Associate professor	Tohru Okuzono	Doctor (Science)	Control Study (1, 2) Introduction to Drug-Aid Nanoengineering 1 Pharmaceutical-Engineering Cooperative Special Practice Technology Internship Global Presentation	drug field 2. Study of rule structural formation of colloid series, and application of materials 3. Computation simulation of soft matter ordering process 4. Synthesis of functional particles, such as particles containing quantum dots, and its application
		Associate professor	Akiko Toyotama	Doctor (Pharmaceutical sciences)		

Faculty member in charge			
Nagoya Institute of Technology	Functional Drug Development	Professor	Norio Shibata
		Professor	Tomohiro Ozawa
	Drug Delivery and Dynamic Science	Professor	Takehisa Dewa
		Professor	Masahiro Higuchi
		Associate professor	Toshihisa Mizuno
	Drug-Aid Nanoengineering	Professor	Shinya Tsukiji
		Professor	Masanori Nakamura