

AY 2025

**Master's Program (Enrollment in April 2025)
Kobe University Graduate School of Engineering
Special Entrance Examination
for International Students**

**Application Guide
Round 2**

**Graduate School of Engineering
Kobe University**

Kobe University Graduate School of Engineering

Kobe University Graduate School of Engineering was established as part of the reorganization of the Graduate School of Science and Technology in April 2007. Both the Master's and Doctoral Programs of the Graduate School of Engineering consist of five departments: Architecture, Civil Engineering, Electrical and Electronic Engineering, Mechanical Engineering, and Chemical Science and Engineering. A Master of Philosophy in Engineering is granted upon completion of the Master's Program at the Graduate School of Engineering.

A "Basic Policy for the English course of Undergraduate and Graduate School of Engineering" has been established. This policy aims to promote lectures in English or English with Japanese additional explanation.

Admission Policy of Kobe University Graduate School of Engineering

Engineering refers to an academic discipline dedicated to developing an understanding of nature to serve humanity, pursuing the principles of nature to solve social issues, and building a sustainable society in which people can live in harmony with nature.

The Graduate School of Engineering promotes fundamental scientific research, engages in applied research that contributes to society, and conducts research and education for developing individuals demonstrating advanced and broad knowledge, extensive creativity, high ethical standards, and global mindedness. The Graduate School is committed to enrolling students from a wide range of backgrounds, including people who have conducted and published research at a company, laboratory, or the like, and international students.

The Graduate School of Engineering welcomes applications from those who meet the criteria below, in addition to the criteria set forth in the Admission Policy of Kobe University.

The ideal applicants that the Master's Program of the Graduate School of Engineering hopes to accept are as follows:

1. Students who show enthusiasm for identifying the principles underlying natural phenomena and wish to contribute towards human society through science and technology.

[Required competences: critical thinking, good judgement, expression, interest, and motivation.]

2. Students who possess high ethical standards and are able to understand and consider the impact of science and technology on human society.

[Required competences: critical thinking, good judgement, expression, interest, and motivation.]

3. Students who derive satisfaction from identifying novel challenges and finding creative solutions.

[Required competences: critical thinking, good judgement, expression, interest, and motivation.]

4. Students who use their international experience to increase their cultural awareness, particularly with respect to the potential applications of their research.

[Required competences: critical thinking, good judgement, expression, initiative, cooperativeness, interest, and motivation.]

5. Students who demonstrate a passion for acquiring advanced and specialized academic knowledge and capabilities in order to conduct cutting-edge research.

[Required competences: knowledge, technique, critical thinking, good judgement, expression, interest, and motivation.]

Basic Policy for the Selection of Students:

In order to select students demonstrating the qualities above, in line with the Diploma Policy and Curriculum Policy of the Master's Program of the Graduate School of Engineering, the Graduate School assesses various competences in the entrance examinations below.

The General Entrance Examination, Entrance Examination for Recommended Candidates, Special Entrance Examination for Working Adults, and Special Entrance Examination for International Students are designed to assess knowledge, technique, critical thinking, good judgement, expression, initiative, cooperativeness, interest, and motivation.

For admissions enquiries please contact the Master's Program of the Graduate School of Engineering:

Kobe University Graduate School of Engineering, Student Affairs Section
1-1, Rokkodai-cho, Nada-ku, Kobe 657-8501

Tel: +81-(0)78-803-6350

E-mail: eng-kyomugakusei@office.kobe-u.ac.jp

Graduate School of Engineering Website: <http://www.eng.kobe-u.ac.jp/>

Kobe University Website: <https://www.kobe-u.ac.jp/>

Table of Contents

I Application Guide for Special Entrance Examination for International Students to the Master's Program (Enrollment in April 2025) of the Graduate School of Engineering

1. Enrollment Quota.....	1
2. Required Qualifications	1
3. Application Term	2
4. Application Procedures	2
5. Submission Address for the Application	7
6. Methods, Dates, and Place of Examination	8
7. Publication of Successful Applicants	8
8. Admission Procedures	8
9. Important Notes	8
10. Screening of Eligible Applicants (5)	9
11. Handling of Personal Data	9
12. Control and Prevention of Infectious Diseases.....	9
13. Other Information	12
Appendix: Subjects, Date, Place of Examination	13
Payment Methods of the Fees for the Entrance Examination for the Master's Program of the Kobe University Graduate School of Engineering from a Location Overseas	19

II Information on the Master's Program Curricula (Enrollment in April 2025) of the Graduate School of Engineering

1. Educational Philosophy and Objectives	20
2. Approach and Features of Program Curricula	20
3. Departments, Divisions, and Fields of Education and Research	22
4. Department Details	23
5. Educational and Research Fields, Faculty, and Research Subjects (Keywords)	25

◎ Attachments (A set of required forms for the application as designated by the Graduate School of Engineering)

- Application Form
- Curriculum Vitae
- ID for the Examination
- Administration Form
- Letter of Provisional Acceptance

I Application Guide for Special Entrance Examination for International Students to the Master's Programs (Enrollment in April 2025) of the Graduate School of Engineering

1. Enrollment Quota

Department	Enrollment Quota	Note
Department of Architecture	A Few (Undefined)	A few students of each department can select the Digital Medical Engineering Creation Course. (See page 21)
Department of Civil Engineering	A Few (Undefined)	
Department of Electrical and Electronic Engineering	A Few (Undefined)	
Department of Mechanical Engineering	A Few (Undefined)	
Department of Chemical Science and Engineering	A Few (Undefined)	

2. Required Qualifications

The eligible individual must be a foreigner with International Student alien residential status (or be eligible for this status in April 2025) and fully meet the condition or conditions under one of the following items.

- (1) The individual has completed an undergraduate program or will have completed an undergraduate program by March 31, 2025. Notwithstanding the foregoing, any individual who has graduated from an undergraduate program of Kobe University Faculty of Engineering or is currently enrolled in the program with a prospective graduation date is excluded in the case of the Department of Electrical and Electronic Engineering.
- (2) The individual has completed sixteen years of academic curricula outside of Japan or will have completed the curricula by March 31, 2025.
- (3) The individual has completed the aforementioned sixteen years of academic curricula offered by institutions outside Japan as correspondence programs while living in Japan or will have completed the curricula by March 31, 2025.
- (4) Applicants who have received a bachelor's degree by completing a three-year or longer program at a foreign university accredited by the respective foreign government, or designated by the Minister of MEXT (this includes applicants who have completed an appropriate program offered by the respective foreign educational facility through distance learning while residing in Japan, and applicants who have completed an appropriate foreign educational program at an educational facility in Japan as specified in the previous category).
- (5) The individual has been recognized as having the academic ability equivalent to or better than the ability of individuals who have completed an undergraduate curriculum, based on an application evaluation by the Kobe University Graduate School of Engineering on an individual basis, and the individual is going to be 22 years of age or older by March 31, 2025.

(Note 1) See page 17 if applying based on item (5) above.

(Note 2) The individual who may be eligible based on item (5) above is a graduate of a junior college, technical college, or vocational school or has completed a curriculum offered by a school in the "miscellaneous" category.

3. Application Term

The application term starts on Monday, December 16, 2024 and ends on Thursday, December 19, 2024.

Applications are accepted from 9:30 a.m. to 4:00 p.m. (except for 12:00 p.m. to 1:00 p.m.)

In the case of mailed applications, the application must be delivered to the Graduate School by 5:00 p.m. on Thursday, December 19, 2024.

*** The Examination Admission Card and other documents will be mailed at a later time.**

4. Application Procedures

The applicant must collect, complete as may be required, and submit the documents as listed below:

Application Document	Applicants required to submit documents	Notes
Application Form / Curriculum Vitae	All the applicants	<p>A form designated by the Graduate School. The forms are specific to each respective department.</p> <p>Please use a pen or a ballpoint pen with black ink to fill out the forms. Ensure that the Certificate of Payment of the examination fee (must be with a dated post office stamp) is attached to the designated area on the back of the Application Form.</p> <p><Completing the field of education and research></p> <p>Please refer to the "Educational and Research Fields, Faculty, and Research Subjects (Keywords)" (page 25-29) and choose the field of your education and research to complete the Application form for special entrance examination for international students. The fields of education and research are instructed by each department as below.</p> <ol style="list-style-type: none"> 1. Department of Architecture Complete the boxes for the desired field of education and research with the number of your most desired field of education and research (one field only). 2. Department of Civil Engineering Complete the box for the desired field of education and research with the number of your most desired field of education and research (one field only). 3. Department of Electrical and Electronic Engineering Complete the box for the desired field of education and research with the number of your most desired field of education and research (one field only).

Application Form / Curriculum Vitae	All the applicants	<p>4. Department of Mechanical Engineering Complete the box for the desired field of education and research with the field code of your most desired field of education and research (one field only).</p> <p>5. Department of Chemical Science and Engineering Complete the boxes for the desired field of education and research (faculty member in charge) with the number of your most desired field of education and research (one field only).</p>
ID for the Examination (with one photo) Administration Form (with one photo)	All the applicants	A form designated by the Graduate School. Glue your photo in the designated area. (The photo must be cut to 4.0 cm x 3.0 cm and taken within the last three months with the applicant facing front without any head covering and background, and may be monochrome or in color. Digital photos must be printed on the special paper for photo prints and of sufficient quality.)
Address Stickers (Two stickers)	All the applicants	A form designated by the Graduate School. For mailing a notice and documents for enrollment procedures for the successful applicants.
Special Envelope for Examination Application Documents	All the applicants	The designated envelope must include the applicant's mailing address, first and last names, zip code, and postage stamp/stamps worth 410 JPY. (For mailing the Examination Admission Card)
Examination Fee 30,000 JPY	All the applicants	Transfer the fee from your nearest post office with the attached transfer form and glue the Certificate of Payment in the designated area on the back of your Application Form. (See "Payment Methods of the Fees for the Entrance Examination for the Master's Programs from a Location Overseas" on page 19 if the fund is transferred from a foreign bank.) The fee is not collected if you are an international student awarded a Japanese Government Scholarship at the time of application and continue (or are scheduled) to be an international student with a Japanese Government Scholarship after enrollment.
Recommendation referral from the academic supervisor of the university that you have graduated from	Applicable students only	Prepared by the professor you studied with at your university or any other institution that you graduated from. If the referral is written in a language other than English, please attach an English or Japanese translation of the document. (Not required for the students currently enrolled in the Kobe University Faculty of Engineering or Graduate School of Engineering.)

Academic Transcript	Applicable students only	Prepared by the dean (or the president) of your university or any other institution that you have graduated from. (Not required if the applicants have the required qualification (5), the applicants are expected to graduate from the Faculty of Engineering of Kobe University by March 31, 2025, or the applicants are currently enrolled in the Graduate School of Engineering of Kobe University as Non-Degree Seeking Research Students.) If the transcript is written in a language other than English, please attach an English or Japanese translation of the document.
Certificate of Graduation (Prospective) or Certificate of Completion (Prospective)	Applicable students only	Prepared by the dean (or the president) of your university or any other institution that you graduated from. (Not required if the applicants have the required qualification (5), the applicants are expected to graduate from the Faculty of Engineering of Kobe University by March 31, 2025, or the applicants are currently enrolled in the Graduate School of Engineering of Kobe University as Non-Degree Seeking Research Students.) If the transcript is written in a language other than English, please attach an English or Japanese translation of the document.
A document proving the unofficial acceptance prepared by the faculty member of the education and research field of your first choice	All the applicants	Submit the document (no format specified) prepared by the relevant faculty members of the Graduate School of Engineering.
Notification on elective subjects	Applicants for Department of Architecture, Department of Civil Engineering, and Department of Mechanical Engineering	Complete the Special Subject (1) and Special Subject (2) in the case of Applicants for the Department of Architecture, and Special Subject (2) in the case of Applicants for the Department of Civil Engineering, and the Department of Mechanical Engineering in the area for elective notification included in "II. Survey Items for the Applicants of Special Entrance Examination for International Students and Special Entrance Examination for Career Professionals."

<p>TOEIC L&R Public Test or Original of TOEFL Test Taker (Examinee) Score Report</p>	<p>Applicants for Department of Architecture, Department of Civil Engineering and Department of Mechanical Engineering</p>	<p>Only tests taken on or after January 23, 2023 will be considered valid. --When submitting TOEIC scores Only results from TOEIC Listening & Reading Public Tests conducted in Japan are accepted. Scores from tests conducted outside Japan and TOEIC-IP tests for group examinations are not accepted. Please follow the instructions in "Procedure for the TOEIC Public Test Score Confirmation Service" below and submit your score via the TOEIC application website. A submission of the "official certificate" is not accepted. --When submitting TOEFL scores Only TOEFL iBT (internet-based test) scores are accepted for TOEFL score reports; TOEFL iBT Home Edition and TOEFL ITP for group examinations are not accepted. Please submit the applicant's original score report with the applicant's photograph together with a photocopy (A4), or submit a printout of the downloaded PDF file (A4) of the Test Taker Score Report. Applicants who submit a TOEFL score report must ensure that an Institutional Score Report (official score report) will be sent to Kobe University (DI code: B071) at a later date.</p>
<p>TOEIC L&R Public Test Or Original of TOEFL Test Taker (Examinee) Score Report</p>	<p>Applicants for Department of Electrical and Electronic Engineering</p>	<p>-- When submitting TOEIC scores Only results from TOEIC Listening & Reading Public Tests conducted in Japan are accepted. Scores from tests conducted outside Japan and TOEIC-IP tests for group examinations are not accepted. Tests taken on or after April 1, 2021 are considered valid. Please submit an A4 printout of the digital official certificate. If you are unable to submit the digital official certificate, please submit the original and a photocopy (A4) of your official TOEIC certificate. After checking the original against the photocopy, the original will be returned (together with the examination voucher). If only the original is submitted, it will not be returned. Applications without the applicant's photograph are not accepted. -- When submitting TOEFL scores Only TOEFL iBT (internet based test) scores taken on or after January 23, 2023 are accepted; TOEFL iBT Home Edition and TOEFL ITP scores for group examinations are not accepted. Please submit the applicant's original score report with the applicant's photograph together with a photocopy (A4), or submit a printout of the downloaded PDF file (A4) of the Test Taker Score Report. Applicants who submit a TOEFL score report must ensure that an Institutional Score Report (official score report) will be sent to Kobe University (DI code: B071) at a later date.</p>

<p>TOEIC L&R Public Test Or Original of TOEFL Test Taker (Examinee) Score Report</p>	<p>Applicants for Department of Chemical Science and Engineering</p>	<p>-- When submitting TOEIC scores Tests taken on or after January 23, 2023 are considered valid. Only results from TOEIC Listening & Reading Public Tests conducted in Japan will be accepted. Scores from tests conducted outside Japan and TOEIC-IP test scores for group examinations will not be accepted. Please follow the instructions in “Procedure for the TOEIC Public Test Score Confirmation Service” section below and submit your score via the TOEIC application website. A submission of the official certificate is not accepted.</p> <p>-- If you are submitting TOEFL scores Only TOEFL iBT (internet based test) scores taken on or after April 1, 2021 is accepted; TOEFL iBT Home Edition and TOEFL ITP scores for group examinations are not be accepted. Please submit the applicant’s original and a photocopy (A4) of the original score report with the applicant’s photograph, or submit a printout of the PDF version (A4) of the Test Taker Score Report downloaded from the website. Applicants who submit a TOEFL score report must ensure that an Institutional Score Report (official score report) will be sent to Kobe University (DI code: B071) at a later date.</p>
<p>Permission for examination entry</p>	<p>Applicant currently enrolled in a graduate school; Applicant currently employed by a company</p>	<p>Individuals currently enrolled in a graduate school (except for individuals with prospective completion by March 2025) must submit permission for examination entry issued by the chief faculty member of his/her graduate school, and individuals currently employed by a company or any organization of a similar nature must submit permission issued by his/her line manager.</p>
<p>Residence Certificate or the like</p>	<p>Applicant who is a foreigner (only applicable if the applicant is an alien resident of Japan)</p>	<p>An applicant who is a foreigner and an alien resident of Japan must submit a photocopy of his/her residence certificate (the certificate is valid only if issued within the last 30 days from the day of submission) or any other equivalent document (submit a photocopy of both sides of your resident card).</p>
<p>Certificate of Japanese Government Scholarship Student</p>	<p>Applicable students only</p>	<p>If you are an international student awarded a Japanese Government Scholarship, include a certificate issued by the university where you are currently enrolled. (Not required for students currently enrolled in the Kobe University Faculty of Engineering or Graduate School of Engineering.)</p>

***Special notes regarding the application documents**

- As a general rule, the documents submitted must be the originals, and no photocopy of the document will be acceptable. (Except where indicated that the photocopy is acceptable, or when it is necessary to submit the photocopy with the original version.)
- Any insufficiently prepared document is rejected, so please use extra caution for any item that is incomplete or includes inaccurate information.
- In the event an applicant falsified the application details or failed to satisfy the eligibility requirements for the application, the enrollment shall be revoked, even if the person has been successfully enrolled.
- As a general rule, application documents shall not be returned to the applicant. (Except where indicated that the documents will be returned.)

TOEIC public test score confirmation service procedure flow

STEP 1: Login to the TOEIC application website

(TOEIC application site: <https://ms.toeic.or.jp/Usr/Pages/Entry/Login.aspx>)

STEP 2: Go to the public test application page

Click the “Submit Score to University/Company” button on the bottom right of “Test Results” on the top page.

STEP 3: Select the organization to which you would like to submit your score and the test for which you would like to take the test.

Enter the application code (application code “00010407” for Kobe University Graduate School of Engineering) in the “Select the organization to submit scores to” and click the “Search” button. Next, select the test you wish to submit in the “Test Type Selection” section, and click the “Next” button.

STEP 4: Select the score you wish to submit from the TOEIC Listening & Reading public test taken on or after January 23, 2023, and click the “Next” button.

STEP 5: Confirm the submission details and terms and complete the submission.

Confirm the application code, the name of the test site, the submitted score, and the terms, check the checkbox for agreement to the terms, and click the “Submit” button. You can check your submission history from “Score Submission List” in the “Test Result List”.

5. Submission Address for the Application

Kobe University Graduate School of Engineering, Student Affairs Section, 1-1, Rokkodai-cho, Nada-ku, Kobe 657-8501

Tel: +81-(0)78-803-6350

If you apply via postal mail, please use the registered express mail service.

Also, please add the text "Application Documents to the Master's Degree Program (Enrollment in April 2025) of XXXX (note: name of the department) at Graduate School of Engineering Inside" in red on the front of the envelope.

6. Methods, Dates, and Place of Examination

The decision on enrollment is made based on the overall evaluation of the results of a written examination and an interview. Please take note that any candidate who has not undergone the written examination or interview is exempted from the evaluation for enrollment. See the table on the appendix (pages 13 to 16) for the subjects of the written examination and the date, time, and venue of the interview.

7. Publication of Successful Applicants

10:00 a.m. on Friday, February 7, 2025 (currently scheduled)

The successful applicants will be announced on the website of Graduate School of Engineering.

In addition to the publication, a notice of the results will be mailed to the successful applicants.

The offices will not respond to any inquiries by phone about the results.

8. Admission Procedures

(1) Procedure for Enrollment

The procedure for enrollment will be completed by post.

(2) Period and Documents for Admission Procedures

The period for enrollment procedures is scheduled for mid-March of 2025. The detailed schedule will be mailed (via postal services) by late February of 2025, together with the documents required for enrollment.

(3) Payments upon Admission

Category		Amount	Notes
Admission fee		282,000 JPY	Please make the payment within the enrollment period.
Tuition fee	for the first semester	267,900 JPY	Tuition fees for the first semester are due in April. Payment is to be made by direct debit from the tuition fee transfer account submitted via web registration at the time of enrolment procedures. [If tuition fees are revised in the program of your curriculum, the revised tuition is applicable as of the time of the revision.]
	Annual Tuition	535,800 JPY	

(Note 1) The prices indicated above are the actual prices for AY 2024.

(Note 2) The paid admission fee is not refundable on any basis.

9. Important Notes

(1) General Notes

(i) An applicant may apply to one department only. An applicant may not apply to two or more departments.

(ii) No revisions to the information as written and completed at the time of the application are allowed thereafter.

The paid examination fee is not refundable on any basis, except for the instance where the application documents have not been submitted, or where the application has been rejected.

(iii) Please bring your Examination Admission Card with you on the day of your examination.

(iv) The applicant may use a watch or clock with timekeeping functions only.

(v) The Graduate School does not make any referral to any lodging facility for the examination.

(vi) If you are physically impaired and require special attention, please notify the Graduate School of it two weeks prior to your application.

(vii) There may be changes to the application guidelines and enclosed documents due to natural disasters (earthquake, typhoon and so on) or a disruption of public transportation, etc. If there are any such changes,

we will inform you through the website. Please check the website frequently until the examination day.

(2) Important Notes to Applicants

For applicants to the Department of Architecture, the applicant may not bring or present any material to demonstrate previous professional achievements (e.g. completed works) in the interview for the Master's Degree Program (Enrollment in April 2025) at the Graduate School.

10. Screening of the Applicants under Eligibility (5)

An eligibility evaluation is administered for applicants seeking to apply under this eligibility. (See page 17)

11. Handling of Personal Data

- (1) Kobe University complies with legislation such as the “Act on the Protection of Personal Information, Act No. 57 of May 30, 2003” when handling applicants’ personal information, based on the “Guideline on the Control of Personal Information Held by Kobe University.”
- (2) Personal information including the individual results of screening shall be used for screening (application procedures, conducting screening), announcement of successful applicants, enrollment procedures, future screening methods, and surveys/research aimed at improving university education. The results of these surveys/research will be published without information that could identify specific individuals.
- (3) The personal information of enrolled students provided for the application will be used for supporting the students after enrollment (health management, tuition fee exemption or scholarship application), educational purposes (registration, academic instruction), tuition-fee related matters, and other corresponding work.
- (4) Part of these operations may be outsourced to an agency (hereafter referred to as “Agency”). In cases where operations are outsourced, all or part of the personal information provided will be provided to such an Agency under a nondisclosure obligation within a certain limit necessary for the Agency to execute the operations.

12. Control and Prevention of Infectious Diseases

(1) Submission of a certificate demonstrating inoculation and an antibody test against measles and rubella:

Kobe University has implemented the Measles and Rubella Registration Policy, and all newly enrolled Kobe University students must submit one of the following three certificates (①, ②, or ③) to prevent a possible outbreak of measles and rubella on campus.

Please note that students admitted to the following schools are required to submit either ① or ③: School of Medicine (Faculty of Medicine and Faculty of Health Sciences), the Graduate School of Medicine, or the Graduate School of Health Sciences.

① A vaccination certificate to prove that you have received two doses each of the measles and rubella vaccine after turning one year old (recommended)

② A vaccination certificate to prove that you were inoculated with measles and rubella vaccines each with-in the last five years (since April 2020).

③ An antibody certificate to prove that you have sufficient antibody titer in your blood (refer to the chart next page) to prevent the development of measles and rubella, based on the results of an antibody test performed within the last five years (since April 2020)

* For ① and ②, a combined vaccine against measles and rubella (e.g., MR vaccine) is permissible.

* For ① and ②, the certificate must be issued by an accredited medical institution and state the type of vaccine and the date of inoculation.

* If you have a history of measles or rubella, please submit ③ or receive a vaccination and submit ① or ②.

* For ③, the certificate must specify the measuring method and the measured values of antibody titer in your blood (refer to the next page), and it must satisfy the judging standard listed in the chart. A blood test report sheet itself can be accepted for submission.

If the antibody titer in your blood is insufficient, you must receive the necessary vaccination, and submit either ① or ②.

* You may submit a combination of ①, ②, and ③ (e.g., ① for measles and ③ for rubella).

* If your antibody titer level is below the threshold, yet you are unable to receive the vaccinations due to certain circumstances (such as illness or specific body conditions), please provide an official document (like a medical certificate) that explains the reason.

Procedure, deadline, and location for submission

• All successful undergraduate and graduate applicants enrolling in April (except the Graduate School of Medicine, the Graduate School of Health Sciences and the Graduate School of Maritime Sciences):

Please submit at the time of the medical checkup for new students scheduled in April.

• All successful graduate applicants enrolling in April (the Graduate School of Medicine, the Graduate School of Health Sciences, and the Graduate School of Maritime Sciences):

Submit the certificate to the following institution by the designated date:

- Students of the Graduate School of Medicine should submit directly to the Medical Center for Student Health, Kusunoki Branch, by April 21.

- Students of the Graduate School of Health Sciences should submit directly to the Physical and Mental Health Consultation Office (Myodani Campus), by April 21.

- Students of the Graduate School of Maritime Sciences should submit the form at the medical examination site on the day of the medical check-up for maritime sciences students.

• Successful applicants enrolling in October:

Please submit the form at the time of the medical check-up for students entering in October.

(2) Submission of a certificate demonstrating inoculation and an antibody test against epidemic parotiditis and chickenpox (Only for successful applicants enrolling in the School of Medicine including both the Faculty of Medicine and the Faculty of Health Sciences; the Graduate School of Medicine; and the Graduate School of Health Sciences):

In addition to the measles and rubella certificate, successful applicants enrolling in the School of Medicine (the Faculty of Medicine and the Faculty of Health Sciences), the Graduate School of Medicine, and the Graduate School of Health Sciences, are also required to submit a certificate regarding epidemic parotiditis and chickenpox. A designated form for the certificate is available at the Academic Affairs Section.

The certificate must state that either you were inoculated against epidemic parotiditis and chickenpox (twice each after one year of age), or verify that you have sufficient antibody titer in your blood to prevent the development of epidemic parotiditis and chickenpox based on an antibody test performed within the last five years (since April 2020).

If the antibody titer in your blood is insufficient, you must receive the necessary vaccination (twice each), by the due date for the certificate submission. (The two vaccinations must be given at least 4 weeks apart.)

* If your antibody titer level is below the threshold, yet you are unable to receive the vaccinations due to certain circumstances (such as illness or specific body conditions), please provide an official document (like a medical certificate) that explains the reason.

Procedure, deadline, and location for submission>

• Successful undergraduate and graduate applicants enrolling in April

(Only for the School of Medicine including the Faculty of Medicine and the Faculty of Health Sciences; the Graduate School of Medicine, and the Graduate School of Health Sciences):

By the end of June of your first year, submit the certificate to the following:

- Students of the School of Medicine (both the Faculty of Medicine and the Faculty of Health Sciences) should submit directly to the Medical Center for Student Health (Rokkodai).
- Students of the Graduate School of Medicine should submit directly to the Medical Center for Student Health, Kusunoki Branch.
- Students of the Graduate School of Health Sciences should submit directly to the Physical and Mental Health Consultation Office (Myodani Campus).

☆Attention: For those who are enrolled in the School of Medicine but miss the submission deadline, you may not be able to participate in the initial on-site clinical training program etc.

- Successful graduate applicants enrolling in October

(Only for the Graduate School of Medicine and the Graduate School of Health Sciences):

Submit the certificate by end of December of your first year to the following:

- Students of the Graduate School of Medicine should submit directly to the Medical Center for Student Health, Kusunoki Branch.
- Students of the Graduate School of Health Sciences should submit directly to the Physical and Mental Health Consultation Office (Myodani Campus).

Measuring methods and judging standards for blood antibody titers

	Measuring Method	Judging Standard	Remarks
Measles	IgG — EIA method	$8.0 \leq$ positive ($16.0 \leq$) *	Positive result by one of these three methods. * For the School of Medicine (both the Faculty of Medicine and the Faculty of Health Sciences), the Graduate School of Medicine, and the Graduate School of Health Sciences: Positive result by one of these three methods, and must achieve values shown in brackets.
	PA method	$256x \leq$ positive ($256x \leq$) *	
	NT method	$4.0x \leq$ positive ($8x \leq$) *	
Rubella	HI method IgG — EIA method	$32x \leq$ positive $8.0 \leq$ positive	Positive result by one of these two methods. (HI method is recommended)
Epidemic Parotiditis (Mumps)	IgG — EIA method	$4.0 \leq$ positive	Only for the following schools: School of Medicine (Faculty of Medicine, Faculty of Health Sciences), Graduate School of Medicine, and Graduate School of Health Sciences
Chickenpox	IgG — EIA method IAHA method NT method	$4.0 \leq$ positive $4\text{-fold} \leq$ positive $4\text{-fold} \leq$ positive	Only for the following schools: School of Medicine (Faculty of Medicine, Faculty of Health Sciences), Graduate School of Medicine, Graduate School of Health Sciences Positive result by one of these three methods (IgG — EIA method is recommended)

* Antibody testing is not required if the vaccination history meets the requirements or if additional vaccinations are given.

- * Make sure the above methods are followed when the antibody titer is measured in your blood.
- * The protective antibody value differs according to the measuring method used. Please note that **the judging standards are higher than the usual standards used at medical institutions.**

Students who wish to enter the School of Medicine (the Faculty of Medicine and the Faculty of Health Sciences), the Graduate School of Medicine, and the Graduate School of Health Sciences should note that they are required to have a higher level of protective antibodies against measles, as indicated in brackets.

- * Before visiting a medical institution, please confirm in advance whether you can receive the necessary antibody tests and/or the vaccinations.

When you visit a doctor at a medical institution, make sure to present this document to obtain the necessary certificate(s). (In particular, when taking an antibody test, please ensure the measurement methods meet the above criteria.)

- * Points to Consider when Submitting a Certificate:

- ① Please bring the original certificate and one set of copies (A4 size).
- ② If the certificate is written in a language other than Japanese or English, please attach a document that shows either a Japanese or English translation.

For further information, please refer to:
Medical Center for Student Health, Kobe University Tel: +81-78-803-5245
Student Support Division, Student Affairs Department, Kobe University Tel: +81-78-803-5219

13. Other Information

The Graduate School has exemption programs from admission fee and tuition fees, as well as scholarship programs as part of the educational support.

Appendix

Subjects, marks allocated, date, and Place of Examinations

Subjects and marks (for Special Entrance Examination for International Students)

An English-language written exam is available. Please apply for the English-language written exam using the application form. For applicants to the Departments of Architecture, Civil Engineering, and Chemical Science and Engineering who request an English-language written exam, the examinations will be provided in both English and Japanese. For the applicants to the Department of Electrical and Electronic Engineering and the Department of Mechanical Engineering who request an English-language written exam, the written tests will be provided in English only.

Department	Subjects (Numbers in the bottom row are allocated points)				Total points	Items to be used except for writing utensils (note5)
	Special subject (1)	Special subject (2)	Foreign language (Note 1)	Interview		
Department of Architecture	Applicants for a lab in group A must take Architectural Planning, Urban Planning and History of Architecture examinations.	Applicants for a lab in group B must take Building Structure and Structural Material examinations. Applicants for a lab in group C must take the Environmental Engineering examination.	English	Interview	250	Not available Calculators can be borrowed.
	200	200	50	(Note 4)		
Department of Civil Engineering	Mathematics (Linear algebra, differential and integral calculus, differential equations, and probability and statistics)	Structural mechanics, hydraulics, soil mechanics, infrastructure planning and management Select two of the four subjects listed above.	English	Interview	400	Ruler Calculators can be borrowed.
	100	200 (100 per subject)	100	(Note 4)		
(Note 2) Department of Electrical and Electronic Engineering	Mathematics (Linear algebra, differential and integral calculus, ordinary differential equations, complex function theory, and Fourier analyses) Electric and electronic Circuits	Electronic physics, Electronic informatics (Note 3) Select one of the two -subjects listed above.	English	Interview	440	Not available
	160 (Mathematics 100, Electric and electronic Circuits 60)	180	100	(Note 4)		

Department of Mechanical Engineering	Mathematics (Linear algebra, differential and integral calculus, ordinary differential equations, complex function theory, and Fourier analyses)	Mechanics of materials, fluid dynamics, thermodynamics, fundamental mechanics and vibration, production engineering and control engineering Select three of the five subjects listed above.	English	Interview	500	Not available
	100	300 (100 per subject)	100	(Note 4)		
Department of Chemical Science and Engineering	Short essay		English	Interview	400	Not available
	150		150	100		

(Note 1) Evaluated by the TOEIC or TOEFL Score. For information on score validity, please refer to “4. Application Procedures”.

(Note 2) Please visit our Department of Electrical and Electronic Engineering website for an overview of the problems covered in the special subject examinations. (<http://www.eedept.kobe-u.ac.jp>) (in Japanese)

(Note 3) Select one subjects out of the Special Subjects (2) listed below and designated by the education and research field of your first preference for the Department of Electrical and Electronic Engineering.

Education and research field number	Special subject (2)
1-5	Electronic physics (Three fields: Electromagnetics, quantum material engineering, semiconductor device engineering)
6-10	Electronic informatics (Select three of the four fields: Logic circuits, information and communication engineering, data structures and algorithms, data science)

(Note 4) The oral examination is judged on a pass/fail basis.

(Note 5) Writing utensils refer to black pencils, pencil caps, mechanical pencils (only black lead), erasers, and pencil sharpeners. No other items are accepted.

Examination Dates (for Special Entrance Examination for International Students)

Department of Architecture

Date	Time	Subjects
Jan. 22 (Wed)	10:00–12:00	Special Subject (1): Architectural Planning; Urban Planning and History of Architecture (Only for the applicant applying for a faculty member of group A) Special Subject (2): Building Structure and Structural Material (Only for the applicant applying for a faculty member of group B) Special Subject (2): Environmental Engineering (Only for the applicant applying for a faculty member of group C)
	14:00–	Interview

Department of Civil Engineering

Date	Time	Subjects
Jan. 22 (Wed)	10:00–12:05	Special Subject (2): Structural Mechanics Hydraulics Soil Mechanics Infrastructure Planning and Management Select two of the four subjects listed above.
	13:00–14:00	Special Subject (1): Mathematics
	15:30–	Interview

Department of Electrical and Electronic Engineering

Date	Time	Subjects
Jan. 22 (Wed)	9:30–11:00	Special Subject (1): Mathematics
	11:30–12:30	Special Subject (1): Electric and Electronic Circuits
	14:00–16:00	Special Subject (2)
Jan. 23 (Thu)	14:00–17:00	Interview

Department of Mechanical Engineering

Date	Time	Subjects
Jan. 22 (Wed)	9:30–11:00	Special Subject (1): Mathematics
	12:30-15:30	Special Subject (2): Mechanics of Materials Fluid Dynamics Thermodynamics Fundamental Mechanics and Vibration Production Engineering and Control Engineering At the time of application, select three of the five subjects listed above. (Note)
	16:00-	Interview

(Note) Complete 3 subjects in 3 hours. There is no break time.

Department of Chemical Science and Engineering

Date	Time	Subjects
Jan. 23 (Thu)	10:00–11:30	Short essay
	14:00–	Interview

Place of Examination

Kobe University Graduate School of Engineering Building (address: 1-1, Rokkodai-cho, Nada-ku, Kobe. See the back of your Examination Admission Card for access to the venue).

Screening of the Applicants under Eligibility (5)

1. Required Qualifications

The individual must have been verified to have the academic ability equivalent to or better than the ability of the individuals who have completed an undergraduate curriculum after an application qualification evaluation by the Kobe University Graduate School of Engineering on an individual basis, and the individual is going to be 22 years of age or older by March 31, 2025.

(Note) The individual who has been "approved to have the academic ability equivalent to or better than the ability of the individuals who have completed an undergraduate curriculum after an application qualification evaluation by the Kobe University Graduate School of Engineering on an individual basis" refers to individuals who have graduated from a junior college, technical college, or vocational school, or have completed a curriculum offered by a school in the "miscellaneous" category, and have been approved to have the academic ability equivalent to or better than the ability of the individuals who have completed an undergraduate curriculum after an application qualification evaluation on an individual basis.

2. Application Eligibility Evaluation

An eligibility evaluation is administered by the Kobe University Graduate School of Engineering on an individual basis for an applicant seeking to apply under this eligibility.

(1) Application procedures

Application term: from Wednesday, November 20, 2024 to Friday, November 22, 2024.

Applications are accepted from 9:30 a.m. to 4:00 p.m. (except for 12:00 p.m. to 1:00 p.m.)

(2) Submission address of the application documents for eligibility evaluation:

Kobe University Graduate School of Engineering,
Student Affairs Section, 1-1, Rokkodai-cho, Nada-ku, Kobe 657-8501
Tel: +81-(0)78-803-6350

In the case of mailed applications, the application must be sent via registered express service and delivered to the Graduate School by 5:00 p.m. Friday, November 22, 2024.

Also, please add "**Application Documents for the Eligibility Evaluation of Master's Degree Program (Enrollment in April 2025) at Graduate School of Engineering Inside**" in red color written on the front of the envelope.

(3) Documents to submit

- (i) Application for Eligibility Evaluation (the form designated by the Graduate School)
- (ii) Certificate of graduation issued by the last educational institution attended (in Japanese or English)
- (iii) Academic Transcript issued by the last educational institution attended (in Japanese or English)
- (iv) Envelope designated for response (a standard size envelope with the applicant's mailing address, first and last names clearly indicated, and attached with the postage stamp/stamps of 410 JPY)

(4) Evaluation Method

The applicant is evaluated by the documents.

(5) Notice of the results of application eligibility evaluation

The results will be notified to the applicant by Monday, December 9, 2024.

3. Application Procedures

If you have qualified for application eligibility through the application eligibility evaluation, please complete the application procedures pursuant to this Application Guide. (In this instance, the academic transcript or certificate of graduation (or completion) included in the list of application documents are not required.)

4. How to Request the Documents for Application Eligibility Evaluation

(i) Make sure that the application is based on application eligibility (5), and (ii) request the documents from the Kobe University Graduate School of Engineering, Student Affairs Section, by sending the form with the clearly indicated name of the school that you last graduated from and the other information and with an envelope (size K2: 33.2 cm long and 24.0 cm wide) for a response with your zip code, mailing address, first and last names indicated, and with the postage stamp/stamps of 440 JPY. It should be noted that "Application Documents for the Eligibility Evaluation of Master's Degree Program (Enrollment in April 2025) at Graduate School of Engineering Inside" must be written in red on the envelope.

Payment Methods of the Entrance Examination Fees for the Master's Programs of Kobe University Graduate School of Engineering from a Location Overseas

Please access the Application Fee Payment System of Kobe University from the URL shown below or the QR code, and pay with a credit card or Alipay.

The credit card holder does not have to be the applicant, but please be sure to enter the applicant's information in the Customer information field.

Please print the email of payment completion and attach it to the application form.

<https://tinyurl.com/yxt4p2dv>



【Items】

Application fee ¥30,000

Remittance fee ¥660

【Credit cards accepted by Kobe University's payment processing system】



II Information on the Master's Program Curricula (Enrollment in April 2025) of the Graduate School of Engineering

1. Educational Philosophy and Objectives

The Graduate School of Engineering aims to develop applied research activities that contribute to society and at the same time promote fundamental scientific research activities based on the belief that engineering should give back its scientific progress to society. To enable the Graduate School to achieve its aim, five departments are established: the Department of Architecture to create living space in society that excels in safety, comfort, convenience, and balance with the environment; the Department of Civil Engineering to promote safety and symbiosis with the environment in urban and suburban spaces; the Department of Electrical and Electronic Engineering to construct the foundation for the information society with electronic materials, electronic information devices, and data processing technology; the Department of Mechanical Engineering to create the various kinds of machinery including energy, transportation, and production machinery and robots; and the Department of Chemical Science and Engineering to invent and explore the mechanism of functional materials and to create and advance the material production processes. The objective of the first term of the Master's Programs at the Graduate School is to engage in education and research to cultivate talent with broad knowledge and an interdisciplinary viewpoint, in particular professionals of excellence with multiple points of view and abundant creativity. The objectives for the second term of the programs are to further expand and explore education in the first term of the respective departments, and at the same time promote education and research to nurture researchers and faculty members at higher educational institutions and expert professionals of more advanced levels.

2. Approach and Features of Program Curricula

The first term of the programs offers a kind of education that attracts a wide breadth of talent and that is aligned with the talent cultivation policy after the completion of the programs. The second term of the programs continues to deliver higher levels of technical education that is consistent with the first term, whereas the newly enrolled students from the second term are provided guidance on an individual basis. The features of the Graduate School curricula include the following.

The Graduate School is currently offering Master's Programs that cover highly specialized and diverse academic areas of engineering to successfully satisfy the students' ambition for improvement, and now it is introducing coursework, multi-major education, and industry-academia collaborative education featuring work experience.

Establishing multi-major courses:

Cross-department sub-courses are established to cultivate engineering professionals equipped with multiple points of view and abundant creativity and to offer students an option to develop talent from education by multiple departments, in addition to that of the principal department. The completion of each sub-course will be accredited if the requirements have been met, and the students will be awarded with certificates of completion. The accredited units, however, will be treated separately from the requirements of the first term.

Digital Medical Engineering Creation Course:

In order to develop advanced medical devices that provide solutions to the various problems that Japan's healthcare system is facing today, there is a need for human resources who can create innovations by acquiring fundamental knowledge for device development from both life and medical science perspectives, and who are able to capture the needs of the medical field and translate them into commercialization. In response to this, Kobe University will offer a new course, the Digital Medical Engineering Creation Course, in April 2021 at the Graduate School of Engineering, as a place for creative education to achieve the full potential of the medicine and engineering collaboration. This cross-disciplinary educational program will be implemented across multiple graduate schools of Kobe University (Graduate School of Engineering, Graduate School of Medicine, Graduate School of Health Sciences, etc.). In this course, students will learn about concept development and manufacturing of new devices, with a specific emphasis on medical device development that enables practical applications in the medical field.

This course has the following features. (i) Students will develop specialized knowledge and multifaceted thinking in life/medical science and engineering fields through a cross-disciplinary curriculum and team-based development practices in collaboration with different disciplinary fields. (ii) Students will be able to experience needs identification through visits to the sites of medical operations. (iii) Students will gain a broad range of hands-on experience, such as medical device development and robot hand control, through practical training at the Medical Device Hands-on Studio in Kobe University research hospital.

If students meet the requirements of the course, they will receive a certificate of completion. The course is designed for students who are interested in advanced medical technology and the application of engineering principles to medicine. Those who are able to set their own goals and tackle their challenges with an inquiring mind are encouraged to participate in this course.

Master's Degree Accreditation Procedures:

A midterm presentation meeting on the progress and future plan of the research will be held in the second term of the first year to the first term of the second year to offer proper guidance for the drafting of master's degree theses. Furthermore, the progress of the students in learning technical knowledge will be verified in the second term of the second year before moving forward to the submission and evaluation of the master's degree theses (including the presentation meeting for the master's degree theses). The midterm presentation meeting on the progress of research and the presentation meeting for the master's degree theses will be held by the respective departments to establish a system for each department as a whole to work on the research and guidance. The presentation meeting for the master's degree theses is held in the first year in the case of earlier completion.

3. Departments, Divisions, and Fields of Education and Research

(Department)	(Division)	(Education and Research Field)
Department of Architecture	Spatial Design	4 fields
	Architectural Planning	4 fields
	Engineering of Building Structures	3 fields
	Architectural Environmental Engineering	2 fields
Department of Civil Engineering	Engineering of Human Safety	6 fields
	Engineering of Environmental Symbiosis	6 fields
Department of Electrical and Electronic Engineering	Physical Electronics	5 fields
	Computer and Information Engineering	5 fields
Department of Mechanical Engineering	Heat Transfer and Fluid Engineering	3 fields
	Materials Physics and Mechanics	3 fields
	System Design	3 fields
	Innovative Materials and Nano Engineering	2 fields
Department of Chemical Science and Engineering	Applied Chemistry	3 fields
	Chemical Engineering	3 fields
(Total) 5 departments	14 divisions	52 fields

4. Department Details

Department of Architecture

Architecture is one of the most universal fields of learning, concerning the creation of housing, architectural facilities, and other bases of human life. In order to address the emerging architectural challenges, it is necessary to foster human resources capable of "spatial design" to study basic fields of architecture, such as design and planning, structural engineering, and environmental engineering, and to provide specific solutions for the challenges by integrating the learning from the basic fields.

The curriculum at the Department of Architecture provides education and undertakes research in order to produce practical talents to create safer and enhanced space for living comprising (i) integrated and practical design encompassing architectural and environmental design, management of structural engineering and designing; structural and information systems, and environmental management, (ii) basic theory of the architectural design including history and theory of architecture, conservation and restoration theory for historical environments, dwellings and planning of housing and areas, urban and architectural safety and architectural planning, and basic theory of urban planning; (iii) broad range of research and education for improvement of safety and resilience of building structures against natural and human-made hazards and for advanced structural design, performance evaluation, proposal and application of novel technologies: structural controls and high-performance materials; and the (iv) analysis and control of acoustical, thermal, aerial and lighting environment of buildings.

Department of Civil Engineering

The Department of Civil Engineering enrolls students who intend to be in charge of the public services that are much-needed in society, and develops practical and highly skillful talents with comprehensive cross-disciplinary points of view and technical knowledge across the traditional civil engineering areas. The department sees the broad engineering area encompassing urban redevelopment, citizen participation, and internationalization as the new Civil Engineering for the 21st century. The department delivers education and research related to safety in urban and regional areas, and to environmental symbiosis based on education on environmental conservation and maintenance and restoration of urban facilities. We aim to create cities and areas that are safe against natural and social disasters and symbiotic with nature. The Department of Civil Engineering has two divisions including the Human Safety Engineering Division and Environmental Symbiosis Engineering Division.

Department of Electrical and Electronic Engineering

The current expectations for fundamental research at universities are the highest ever in the electrical and electronic engineering fields as the fields are facing critical research subjects, including the development of nano-structured materials; neo-functional materials; quantum effect materials and devices; ultra-gigabit scale chips; large capacity communication shifting from terabit to petabit; next-generation super capacity computers; artificial intelligence attempting to achieve the functionality of human brain; development of new electric energy technology; and the application of electrical and electronic engineering technologies to the environment, medical, safety, and bioengineering fields.

The Department of Electrical and Electronic Engineering is designed to meet these expectations, and based on a new concept where electronic physics and electronic information are functionally integrated. The notable feature is an organization that allows for integrated education and research at graduate school from hardware and software to systems at the electronics and information engineering. The basic study and research subjects include the physical properties of electronic materials and device physics; the theory

and technology of exchange, transfer, and processing of data; conversion, transmission, and control of electromagnetic energy; and the basics of new energy systems. The department aims to organize curricula with a wider variety of subjects in order to cultivate talents with higher levels of basic academic capability in specialized fields and basic research capability.

Department of Mechanical Engineering

Mechanical engineering is an academic field that forms the foundation to support industrialized society and information society. The department provides education and research in machines and related fields to design, manufacture, and control a highly complicated mechanical system while maintaining harmony with society and the environment. This is achieved by integrating and synthesizing many advanced and sophisticated technology elements both from the hardware and software of environment, energy, nanotechnology, robotics, design systems, and production systems. During the program of the first term, the department nurtures talents with high levels of basic academic capability in specialized fields and basic research capability, as well as an ethical and cosmopolitan way of thinking, to be leader of society in the future. The department then cultivates talents with interdisciplinary ways of thinking to be able to carry out unique research and development in the second term. To achieve this, the Department of Mechanical Engineering offers four divisions including Heat Transfer and Fluid Engineering, Materials Physics and Mechanics, System Design and Innovative Materials and Nano Engineering.

Department of Chemical Science and Engineering

The Department of Chemical Science and Engineering freely integrates subjects from a broader area from fundamental chemistry at micro and molecular levels to the addition and expression of functionality of chemical substances as the amalgamated form of molecules, creation of substances, engineering method of application of biological functions, and to the actual macro-level industrial production and production technologies and systems based on a new set of standards thereby seeking to cultivate researchers and engineers to lead the chemical industry in the future on a global level. The department offers education and research on the analysis of structure and physical properties in the orders of molecule to nano, creation of highly functional substance and materials, biomaterial including application technologies of biological functions, development of bioreactors, chemistry technology, production technology, advancing isolation and refining technologies, and analysis and application of processing system as a whole. To achieve this, the Department of Chemical Science and Engineering has two divisions: Applied Chemistry and Chemical Engineering.

5. Education/Research Fields, Staff and the Study Contents (Keyword)

As of April 1, 2025

Department	Number	Education/Research Fields	Staff	The Study Contents	
Architecture	A Group (Note 1)	1	History of Architecture	NAKAE, Ken	History of Modern Architecture, Theory of Architecture
		2	History of Architecture	YASUDA, Tetsuya	History of Japanese Architecture
		3	Theory of Architecture	SUEKANE, Shingo	Theory and Design of Architecture
		4	Urban and Regional Planning	KURIYAMA, Naoko	Urban Landscape Policy, Urban Planning, Urban Design, Urban Regeneration, Community Planning
		5		YAMAGUCHI, Hidefumi	Living Environmental Planning and Design, Living Environment, Regional Planning, Community Planning
		6	Architectural Design and Environmental Design	TSUKIHASHI, Osamu	Practical Theory for Architecture and Urban Design
		7	Planning for the Built Environment and Disaster Risk Reduction	KONDO, Tamiyo	Planning for the Built Environment and Disaster Risk Reduction, Urban Safety Management
	B Group (Note 1)	8	Structural Engineering and Design	FUJINAGA Takashi	Steel-Concrete Composite Structures, Hybrid Structures, Seismic Retrofitting
		9		MIZUSHIMA Yasunori	Finite Element Analysis, Super-Detailed Structural Model, Collision Problem, Behavior Analysis of Building under Construction
		10	Reinforced Concrete Structures	SUN Yuping	Earthquake-Resilient Structures, Reinforced Concrete Structures, Concrete-Filled Steel Tubular Structures, Seismic Design, Seismic Retrofit
		11		TAKEUCHI Takashi	Resilient Structures, Reinforced Concrete Structures, Wind-Resistance Engineering, Wind-Induced Damage Analysis
		12	Steel Structures	TANAKA Tsuyoshi (Note2)	Steel Structures, Composite Structures, Connections
		13		NAMBA, Hisashi	Seismic Behavior of Steel and Timber Structures
		14	Structural Dynamics and Mechanics	MUKAI, Yoichi	Structural Control, Structural Monitoring, Structural Analysis, Impulsive Action, Wooden Structure
	15	Structural and Information Systems	YAMABE, Yuichiro	Structural Planning, Optimization of Structural System, Behavioral Simulation	
	C Group (Note 1)	16	Planning of Acoustical and Lighting Environments	SAKAGAMI, Kimihiro	Measurement, analysis and evaluation of acoustic environment, Numerical acoustic simulation, Control of acoustic environment
		17		SATO, Hayato	Evaluation of Sound Environment, Speech Transmission Performance, Speech Privacy, Outdoor Public Address System
		18	Thermal Environmental Planning	TAKADA, Satoru	Architectural environmental system, Simultaneous heat and moisture transfer, Thermal comfort, Heat transfer in buildings, Hygrothermal material properties
		19	Environmental Management	SUZUKI, Hirotaka	Lighting Environment Planning, Visual Environment Analysis, Daylighting, Lampshade Design
		20		TAKEBAYASHI, Hideki	Urban Thermal Environment, Heat Island, Wind Environment, Green Roof, Energy Conservation

(Note1) The years of practical experience which you can acquire through this master course to apply for the Architect licence examination vary depending on A, B and C group. Please visit Department of Architecture website for more details. (<http://www.arch.kobe-u.ac.jp/>)

(Note2) The faculty member is scheduled to retire in March 2026.

Department	Divisions	Number	Education/Research Fields	Staff	The Study Contents(Keyword)
Engineering of Environmental Symbiosis		C1	Structural Engineering for Urban Safety	MIKI, Tomohiro	Structural concrete, Maintenance, Nonlinear analysis, Seismic performance evaluation, Residual Performance evaluation, Image analysis
		C2	Geotechnical Engineering for Human Safety	TACHIBANA, Shinya	Geo-environmental Engineering, Geo-environmental Risk Evaluation, Geo-multiphysics, Constitutive Modeling of Geomaterials
		C3	Transport Systems Engineering	OTAZAWA, Toshimori	Infrastructure Economics, Regional Science
		C4		SEYA, Hajime	Geographic information science, Spatial econometrics, Spatial statistics, Travel behavior analysis
		C5	Geotechnical Engineering for Disaster Reduction	TAKEYAMA, Tomohide	Geotechnical Engineering, Soil-water coupled FEM, Soil-water coupled SPH, Liquefaction, Landslide, Large-scale simulation
		C6	Earthquake disaster mitigation engineering	NAGAO, Takashi	Earthquake engineering, Evaluation of earthquake ground motion, Earthquake resistance analysis, Structural design engineering, Performance-based design, Reliability-based design
		C7		KUWATA, Yasuko	Lifeline earthquake engineering, Strong ground motion assessment, Seismic response analysis, Experiment on buried pipe, Earthquake disaster prevention, Seismic risk assessment
			River Basin Management Engineering		
		C8	Environmental Fluid Engineering	UCHIYAMA, Yusuke	Coastal engineering, Coastal oceanography, Ocean waves, Turbulence, Ocean modeling, Ocean environment
		C9		SAITO, Masahiko	hydraulics, groundwater hydrology, environmental groundwater modeling, seepage flow simulation, multi-phase flow analysis
		C10	Aquatic and Environmental Engineering	NAKAYAMA, Keisuke	Environmental Engineering, Applied Ecology, Environmental Fluid Dynamic, Climate Change, Solitary Wave, Internal Wave
		C11	Geosphere Environmental Engineering	OISHI, Satoru	Information Civil Engineering, Application of Meteorology to Disaster Mitigation, Quantitative Precipitation Estimation by Electromagnetic wave, Hydrology, Water Resources
		C12		KAJIKAWA, Yoshiyuki	Meteorology, Climatology, Climate Change, Monsoons, Diagnostic study, Numerical Simulation, Deep Convection, Heavy rainfall
		C13		KATO Shoji (Note1)	Geotechnical Engineering for Unsaturated Soils, Soil Mechanics for Unsaturated Soils, Soil material technology, In-Situ and Laboratory test for Unsaturated Soils, Foundation Disaster Prevention, Analysis of Mechanical Properties of Granular Materials
			Geo-environmental Engineering		
		C14	Urban Preservation Engineering	HASHIMOTO, Kunitaro	Steel structure, Hybrid structure, Connection, Load carrying capacity, Seismic design, Corrosion, Fatigue
		C15	Urban Systems Engineering and Management	KOIKE, Atsushi	Infrastructure Planning and Management, Project Evaluation, Applied Economics, Cost Benefit Analysis
C16	SEGI, Shunsuke	Relation between Transportation Infrastructure and Spatial Distribution of Population and Industries, Investment and Operation Strategy of Infrastructures, Urban Economics, Transportation Economics			
C17	TSURUTA, Hiroki	Value Engineering, Consensus Building, Social System, Industrial System, Resilience, Design Thinking, System Thinking			

(Note1) The faculty member is scheduled to retire in March 2026.

Department	Number	Education/Research Fields	Staff	The Study Contents (Keyword)
Electrical and Electronic Engineering	1	Mesoscopic Materials	FUJII, Minoru; SUGIMOTO, Hiroshi	Nanophotonics, Plamonics, Metasurface, Metafluid, Structural coloration, Nanobiophotonics, Li-ion battery
	2	Photonic Materials	KITA, Takashi; ASAHI, Shigeo; HARADA, Yukihiko	Quantum nano-photonics, quantum wells/wires/dots, opto electronics, 3rd generation solar cells, photonic devices, ultrafast spectroscopy, optical nonlinear materials, ultrafast optical communication devices, quantum information, next generation luminescent devices
	3	Quantum Functional Engineering	KITAMURA, Masatoshi; HATTORI, Yoshiaki	Organic electronics, Organic transistors, Organic-inorganic hybrid devices, Oxide semiconductor devices, Flexible electronics materials, Surface-property control, Gas sensors
	4 A	Nano-Structure Electronics	SOUMA, Satofumi	Nanoscale device modeling and simulation, Device-circuit co-simulation, Optical device design and simulation, Neuron-synapse device design and simulation, Quantum bit device design, Quantum computational algorithm and machine learning assisted nanoscale device simulation
	4 B		ONO, Tomoya; UEMOTO, Mitsuharu	Computational Materials & Device Design, Power Electronics, Spintronics, Molecular Electronics, First-Principles Electronic-Structure & Transport-Property Calculation, Surface & Interface Physics
	5	Electromagnetic Energy Physics	TAKENO Hiromasa; FURUKAWA Takeru	electromagnetic phenomena, magneto-hydro-dynamics, low pressure plasma, intensive electromagnetic wave, radio-frequency plasma discharge, helicon wave, nuclear fusion, direct power generation, space propulsion, magnetic nozzle plasma acceleration
	6	Integrated Circuit Information	NUMA Masahiro(Note1); KUROKI Nobutaka	Integrated Circuit Design, High Performance System Design, LSI CAD, Digital Signal Processing, Image Processing, Visual Information Processing, Multimedia Recognition
	7	Computer Engineering	TSUKAMOTO, Masahiko; TERADA, Tsutomu; OHNISHI, Ayumi	Wearable computing, Ubiquitous computing, Entertainment computing, Human-Computer Interaction, Sensor network, activity/context recognition
	8	Information and Communication Engineering	SHIRAISHI, Yoshiaki; KUZUNO Hiroki	Cyber Security, System Security, Internet Applications, Mobile Communications, Network Security, Computer Security, Information Hiding, Data Compression, Cryptography, Coding Theory, Information Theory, Networking, Cyber Threat Intelligence
	9	Algorithms	NAKAMURA Masahide	Algorithms, Data Structures, Graph Theory, Combinatorial Optimization, Computational Complexity, Software Engineering, Service Computing, IoT, Smart Systems
10	Intelligent Learning Theory	OZAWA, Seiichi; YAMADA, Akira; OMORI, Toshiaki; ITO, Mari; INOUE, Hiroaki	Computational Intelligence, Machine Learning, Statistical Learning Theory, Neural Networks, Probabilistic Information Processing, Dynamical System Estimation, Pattern Recognition, Data Mining, Informaiton Security	

(Note1) The faculty member is scheduled to retire in March 2026.

Department	Divisions	Fields Code	Education/Research Fields	Staff	The Study Contents (Keyword)
Mechanical Engineering	HEAT TRANSFER AND FLUID ENGINEERING	MH-1	Advanced Fluid Engineering	IMAI, Yohsuke KATAOKA, Takeshi ISHIDA, Shunichi	Computational biomechanics, Biofluid mechanics, Computational fluid dynamics, Digestive fluid mechanics, Capsules and cells, GPU computing, Nonlinear flow phenomena, Water wave, Internal gravity wave, Breaking wave, Acoustic wave, Stratified fluid
		MH-2	Multiphase Fluid Dynamics	HAYASHI, Kosuke KURIMOTO, Ryo	Bubble dynamics, Drop dynamics, Mass transfer, Computational multiphase flow dynamics, Nuclear thermalhydraulics, Gas-to-liquid, Multiphase flows in microchannels, Two-phase pipe flows
		MH-3	Energy Conversion Engineering	ASANO, Hitoshi MURAKAWA, Hideki SUGIMOTO, Katsumi	Boiling and condensation heat transfer, Heat exchanger, Thermal control devices, Ultrasonic measurement, Neutron radiography, Fuel cell, Refrigerating and heat pump system, Geothermal utilization
	MATERIALS PHYSICS AND MECHANICS	MM-1	Structural Safety Evaluation	SAKAGAMI Takahide(Note2) SHIOZAWA Daiki	Structural integrity evaluation, Inverse problem, Non-destructive evaluation, Maintenance engineering, Infrared measurement, Terahertz electromagnetic waves measurement
		MM-2	Fracture Control Engineering	TAGAWA, Masahito TANAKA, Hiroshi	Space materials, Space environmental effect, Electric propulsion, Beam-induced surface reaction, Strength and fracture of engineering materials, Fracture mechanics, Fatigue of materials, Micromaterial, Metallic material, Composite material
		MM-3	Structural and Functional Materials	TANAKA, Katsushi HASEBE, Tadashi TERAMOTO, Takeshi	Utilizing surfaces and interfaces to improve performance of materials, Heat resistance structural materials, Functional materials for energy harvesting devices, Multiscale simulations for analysis and predicting material performances
	SYSTEM DESIGN	MA-1	Function-Oriented Robotics	YOKOKOHJI Yasuyoshi TAZAKI Yuichi	Robotic Hand, Teleoperation System, Haptic Device, Hydraulic Robot, Biomechanics of Human Hand, Walking Robot, Mobile Robot, Environment Recognition, Map Generation
		MA-2	Sensing Device Engineering	KANNO, Isaku HIDA, Hiroataka	Thin film, Sensor, Actuator, Piezoelectric device, micro-TAS, Plant in a chip, Energy harvesting, Thin-film battery, micro-robot, Acoustic device, Piezoelectric thin film, Ferroelectric thin film, Photocatalyst thin film
		MA-3	Advanced Manufacturing Systems	NISHIDA, Isamu	High speed and high precision machining, End-milling operation, Die and mold, Dental prosthetics, Autonomous and intelligent machine tool, Multi-axis and multi-tasking machine tool, On machine measurement, CAD/CAM, Simulation, Process planning
	Innovative Materials and Nano Engineering	MI-1	Nano Electro Mechanical Systems	ISONO, Yoshitada SUGANO, Koji (Note 1) HONMA, Hiroaki UESUGI, Akio	MEMS/NEMS (Micro/nanomachine), Microsensor, Microactuator, Experimental nanomechanics, Semiconductive nanowire, Multiphysics, Micro physical measurement, Surface plasmon, Bio/chemical sensor, Microfluidic device
		MI-2	Materials Design and Fabrication Engineering	MUKAI, Toshiji (Note 1) IKEO, Naoko	Macro-and Micro-structure design, Microstructure modification, Strengthening mechanism, Lightweight structural materials, Metallic biomaterials, Bio-degradable materials, Implant device

(Note 1) Department of Medical Device Engineering, Graduate School of Medicine.

(Note 2) The faculty member is scheduled to retire in March 2026.

Department	Number	Education/Research Fields	Staff	Keywords
Chemical Science and Engineering	1	Creative Materials Chemistry	MIZUHATA, Minoru; MAKI, Hideshi MINAMIMOTO Hiro	Inorganic materials, Electrochemistry, Materials for energy conversion, Highly concentrated solution, Molten salt chemistry, Liquid phase deposition, Relaxative auto-dispersion, Solid-liquid coexisting systems, NMR spectroscopy, Hetero-phase effect, Nanomaterials
	2		OKANO Kentaro	Transition metal catalysis, Polymer syntheses, Advanced organic materials
	3	Smart Materials Chemistry	FUNAHASHI Masahiro; HORIKE Shohei	Material physical chemistry, Thin film growth, Organic electronics and optics, Dipole engineering, Molecular sensor and actuators, Molecular nanotechnology
	4		(TBD) ; MATSUMOTO Takuya	Polymer property, Polymer structure, Polymer surface and interface, Composite, Adhesion
	5	Functional Materials Chemistry	MINAMI, Hideto; SUZUKI, Nozomu; SUZUKI, Toyoko	Polymer synthesis, Soft matter, Polymer particles, Interface, Heterogeneous polymerization
	6	Separation and Reaction Engineering	MATSUYAMA Hideto(Note1); KAMIO Eiji; MATSUOKA Atsushi	Membrane separation, Separation based on reaction and diffusion, Control of microporous structure, Water treatment, Gas separation
	7		MARUYAMA, Tatsuo; MORITA, Kenta	Interface, Surface functionalization, Surfactant, Polymer, Biomolecule, Pharmacological activity
	8	Process Engineering	OHMURA, Naoto; KOMODA, Yoshiyuki	Process intensification, Process dynamics, Reactor, Functional film
	9		SUZUKI Hiroshi	Rheology, Complex fluid, Latent heat transportation, Drag reduction, Microfluidics
	10	Biochemical Engineering	YAMAJI, Hideki; ICHIHASHI, Yuichi; KATSUDA, Tomohisa	Bioprocess, Bioreactor, Cell culture engineering, Recombinant protein production, Bioseparation, Hydrogen energy, Photocatalysis, Catalyst process
	11		OGINO, Chiaki; TANAKA, Tsutomu; MORI Yutaro	Bioproduction, Biorefinery, Synthetic bioengineering, Protein engineering, Nanobio technology

(Note1) The faculty member is scheduled to retire in March 2026.