

AY 2019

**Master's Program (Enrollment in April 2019)
Kobe University Graduate School of Engineering
Special Entrance Examination
for International Students**

**Application Guide
Term 1**

**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

The Graduate School of Engineering seeks to enroll students as described below:

1. Students with a strong desire to identify the principles behind natural phenomena and to contribute to society through science and technology.
2. Students with an advanced level of ethics and the capability to understand and consider the impacts imposed by science and technology.
3. Students capable of thinking outside of the established concepts and of finding pleasure in creative discoveries and exploration into research subjects.
4. Students with an international vantage point to participate in global society and the capability to understand different cultures through international interaction.
5. Students with a passion to attain advanced technical and academic intelligence and competence in research and development.

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: <http://www.kobe-u.ac.jp/>

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- Application form
- Curriculum Vitae
- Entrance Examination Admission Ticket
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II Application Guide for Special Entrance Examination for International Students to the Master's Programs (Enrollment in April 2019) 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 Health, Welfare, and Medical Engineering Program. (See page 20)
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 2019) 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, 2019. 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, 2019.
- (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, 2019.
- (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, 2019.

(Note 1) See page 16 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 Tuesday, July 24, 2018 and ends on Friday, July 27, 2018.

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 Friday, July 27, 2018.

*** 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>See the "Field of Education and Research" (Please refer to the Japanese application) and complete the field of education and research as per instructed for the desired department as shown below.</p> <p>a Department of Architecture</p> <p>Complete the box for the desired field of education and research under "II. Survey Items for the Applicants of Special Entrance Examination for International Students and Special Entrance Examination for Career Professionals" with the number of your first, second, and third most desired fields of education and research. Please note that the second and third desired fields must be selected from the group of the first desired field (A, B, or C).</p> <p>b Department of Civil Engineering</p> <p>Complete the box for the desired field of education and research under "II. Survey Items for the Applicants of Special Entrance Examination for International Students and Special Entrance Examination for Career Professionals" only with the number of your most desired field of education and research.</p> <p>c Department of Electrical and Electronic Engineering</p> <p>Complete the box for the desired field of education and research under "II. Survey Items for the Applicants of Special Entrance Examination for International Students and Special Entrance Examination for Career Professionals" only with the number of your most desired field of education and research.</p> <p>d Department of Mechanical Engineering</p> <p>Complete the box for the desired field of education and research under "II. Survey Items for the Applicants of Special Entrance Examination for International Students and Special Entrance Examination for Career Professionals" only with the field code of your most desired field of education and research.</p>

		<p>e Department of Chemical Science and Engineering</p> <p>Complete the box for the desired field of education and research (faculty member in charge) under "II. Survey Items for the Applicants of Special Entrance Examination for International Students and Special Entrance Examination for Career Professionals" with up to three most desired fields.</p>
Examination Admission Card (with one photo) Examination Data Card (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 372 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 18 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.
Certificate of Japanese Study	All the applicants	Submit a certificate proving sufficient Japanese language ability for enrollment in the Graduate School. The format is not specified.
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) or the applicants are expected to graduate from the Faculty of Engineering of Kobe University by March 31, 2019.) If the transcript is written in a language other than English, please attach an English or Japanese translation of the document. (In the case of a transcript issued by a Chinese university, see the notes below.)
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) or the applicants are expected to graduate from the Faculty of Engineering of Kobe University by March 31, 2019.) If the transcript is written in a language other than English, please attach an English or Japanese translation of the document.
Certificate of an awarded bachelor's degree or Certificate of prospective bachelor's degree	The Graduates from universities in a country (e.g. China) where the graduates cannot obtain a bachelor's degree only based on the graduation from a university.	If you are a graduate of one of the universities in a country (e.g. China) where you cannot obtain a bachelor's degree based solely on graduation from a university, submit the document prepared by the dean or president of your university or the president of your school. If the certificate is written in a language other than English, please attach an English or Japanese translation of the document. (In the case of a transcript issued by a Chinese university, see the notes below.)
A document proving the unofficial acceptance prepared by the faculty member of the education and research field of your first choice	Applicants for Department of Civil Engineering, Applicants for Department of Electrical and Electronic Engineering Applicants for Department of Mechanical Engineering	Submit the document (no format specified) prepared by the relevant faculty members of the Graduate School of Engineering.

<p>Notification on elective subjects</p>	<p>Applicants for Department of Architecture, Applicants for Department of Civil Engineering, Applicants for Department of Electrical and Electronic Engineering, and Applicants for Department of Mechanical Engineering</p>	<p>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, the Department of Mechanical Engineering, and the Department of Electrical and Electronic 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>
<p>Original of TOEIC Official Score Certificate* or Original of TOEFL Test Taker Score Report.</p>	<p>Applicants for Department of Architecture</p>	<p>Applicants who submit the TOEIC Score must submit the original version of the TOEIC Official Score Certificate in addition to a copy of this certificate (A4 size). If you submit the TOEFL Test Score, you must submit the original version of the TOEFL Test Taker Score Report in addition to a copy of this report (A4 size). After we check the copy against the original, we will return the original version to you when we send you the Examination Admission Card. If you only submit the original version, we will not return it to you. Any score for a TOEIC Test administered outside Japan or a TOEIC-IP Test or TOEFL-ITP administered for groups is not acceptable for the enrollment examination. Furthermore, the applicants who submit a TOEFL Test Taker Score Report must make an arrangement to send the Official Score Report to Kobe University. TOEIC Official Score Certificate or TOEFL Test Taker Score Report is considered valid for the application if it is issued for a test taken after April 1, 2017. Any official certificate without the photo of the applicant is not acceptable.</p> <p>Please visit our Department of Architecture website for more details. (http://www.arch.eng.kobe-u.ac.jp/) (in Japanese)</p>
	<p>Applicants for Department of Civil Engineering</p>	<p>Applicants who submit the TOEIC Score must submit the original version of the TOEIC Official Score Certificate in addition to a copy of this certificate (A4 size). If you submit the TOEFL Test Score, you must submit the original version of the TOEFL Test Taker Score Report in addition to a copy of this report (A4 size). After we check the copy against the original, we will return the original version to you when we send you the Examination Admission Card. If you only submit the original version, we will not return it to you. Any score of TOEIC-IP Test or TOEFL-ITP administered for groups is not acceptable for the enrollment examination. Furthermore, applicants who submit a TOEFL Test Taker Score Report</p>

		<p>must make arrangements to send the Official Score Report to Kobe University. TOEIC Official Score Certificate or TOEFL Test Taker Score Report is considered valid if it is issued for a test taken within the last two years calculating from the day of the scheduled enrollment examination. Any official certificate without the photo of the applicant is not acceptable. Please visit our Department of Civil Engineering website for more details. (http://www.shimin.eng.kobe-u.ac.jp/) (in Japanese)</p>
	Applicants for Department of Electrical and Electronic Engineering	<p>Applicants who submit the TOEIC Score must submit the original version of the TOEIC Official Score Certificate in addition to a copy of this certificate (A4 size). If you submit the TOEFL Test Score, you must submit the original version of the TOEFL Test Taker Score Report in addition to a copy of this report (A4 size). After we check the copy against the original, we will return the original version to you when we send you the Examination Admission Card. If you only submit the original version, we will not return it to you. Any score for a TOEIC Test administered outside Japan or a TOEIC-IP Test or TOEFL-ITP administered for groups is not acceptable for the enrollment examination. Furthermore, applicants who submit a TOEFL Test Taker Score Report must make arrangements to send the Official Score Report to Kobe University. TOEIC Official Score Certificate or TOEFL Test Taker Score Report is considered valid for the application if it is issued for a test taken after April 1, 2015. Any official certificate without the photo of the applicant is not acceptable. Please visit our Department of Electrical and Electronic Engineering website for more details. (http://www.eedept.kobe-u.ac.jp/) (in Japanese)</p>
	Applicants for Department of Mechanical Engineering	<p>Applicants who submit the TOEIC Score must submit the original version of the TOEIC Official Score Certificate in addition to a copy of this certificate (A4 size). If you submit the TOEFL Test Score, you must submit the original version of the TOEFL Test Taker Score Report in addition to a copy of this report (A4 size). After we check the copy against the original, we will return the original version to you when we send you the Examination Admission Card. If you only submit the original version, we will not return it to you. Any score of TOEIC-IP Test or TOEFL-ITP administered for groups is not acceptable for the enrollment examination. Furthermore, applicants who submit a TOEFL Test Taker Score Report must make arrangements to send the Official Score Report to Kobe University. TOEIC Official Score Certificate or TOEFL Test Taker Score Report is considered valid if it is issued for a test taken within the last two years calculating from the day of the scheduled enrollment examination. Any official certificate without the photo of the applicant is not acceptable. Please visit our Department of Mechanical Engineering website for more details. (http://www.mech.eng.kobe-u.ac.jp/) (in Japanese)</p>

<p>The original copy of a TOEIC Official Score Certificate* (or equivalent reference material to verify the English proficiency)</p>	<p>Applicants for Department of Chemical Science and Engineering</p>	<p>Please submit the original version of the TOEIC Official Score Certificate in addition to a copy of this certificate (A4 size). After we check the copy against the original, we will return the original version to you when we send you the Examination Admission Card. If you only submit the original version, we will not return it to you.</p> <p>Any score for a TOEIC-IP Test administered for groups is not acceptable for the enrollment examination.</p> <p>The TOEIC Official Score Certificate is considered valid for the application if it is issued for a test taken after April 1, 2015. Any official certificate without the photo of the applicant is not acceptable.</p> <p>The equivalent reference material to verify the English proficiency refers to the TOEFL Test Taker Score Report, a published academic article or a graduation thesis (written by the applicant) in English, a letter of proof prepared by a faculty member of the university from which the applicant has graduated, and other evidence that is capable of proving the proficiency related to the English language at the level required for research and education at a graduate school. Furthermore, applicants who submit a TOEFL Test Taker Score Report must make arrangements to send the Official Score Report to Kobe University.</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 2019) 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 letter to that effect 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 Official Score Certificate or TOEIC Listening & Reading Test are the only acceptable attached certificates for TOEIC scores. TOEIC Speaking & Writing Tests, TOEIC Speaking Test, TOEIC Writing Test and TOEIC Bridge Test are not accepted.
 - In the case of a certificate issued by a university in China, please follow the procedures to have the certificate directly delivered from the China Academic Degree and Graduate Education Development Center (CDGDC), a foundation under the direct control of the Chinese government, to the Student Affairs Section at the Kobe University Graduate School of Engineering (registration code: W600501) by the last day of the application term. (As a general rule, any document is rendered invalid if the document has been received by the applicant himself/herself from the university that he/she graduated from and has been submitted to the Graduate School.) The aforementioned procedures require the applicant to submit the certificates to CDGDC and payment of the fee as predefined. Please ensure that the certificate is issued in English. Please see the details of the procedures on the CDGDC website at <http://www.cdgdc.edu.cn>. Notwithstanding the foregoing, if the applicant is a graduate from a Chinese university and is enrolled as a research student at the Graduate School (or Faculty), the applicant is not required to resubmit the certificate, provided that the applicant has previously submitted the aforementioned certificate at the time of the application to the current enrollment as a research student at the Graduate School.

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 2019) 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 Venue 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 12 to 15) 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 Tuesday, September 11th, 2018 (currently scheduled)

The successful applicants will be published on the bulletin board at the building of Kobe University Graduate School of Engineering and Graduate School of Engineering Website (<http://www.eng.kobe-u.ac.jp/eng-ofc/kym/examinee.html>).

In addition to the publication, a notice of the results will be mailed to the successful applicants. Notwithstanding the foregoing, the notice will be delivered in person at the office of each department after the publication for the applicants graduating from Kobe University Faculty of Engineering by March 31, 2019. (In the case of any notice left undelivered as the addressee candidate has not appeared at the office by the time of the expiry of the delivery period (of one week), the notice will be delivered by mail.) 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 2019. The detailed schedule will be mailed (via postal services) by late February of 2019, 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 First Semester	267,900 JPY	The tuition fee is due in April. The payment method is an account transfer from the account indicated on the Account Transfer Request of Tuition to Kobe University. [If the tuition has been 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 2018.

(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.

(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 2019) 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 16)

11. Handling of Personal Data

- (1) The personal data retained by the Graduate School will be handled under stringent compliance with the Act on the Protection of Personal Information Held by Independent Administrative Agencies, as well as the Guideline on the Control of Personal Information Retained by Kobe University.
- (2) The results of the examination used in the admission examination and other kinds of personal data are used in the decision on the individuals to enroll (processing of applications and administration of examinations), publication of the successful applicants, admission procedures, and the compilation of the reference materials for the evaluation of methods for the admission examinations in the future.
- (3) The personal data as disclosed upon application are used only for enrolled students in supporting activities (including health control, tuition exemption, and application for scholarships), guidance for learning and other educational purposes, tasks related to tuition, and other activities inherent to these tasks.
- (4) These activities may be partly performed by a subcontractor (hereinafter referred to as the "Subcontractor") that is commissioned by the Graduate School. The disclosed personal data are provided under the confidentiality obligation to the Subcontractors as a whole or in part and to the extent that the Subcontractors are capable of performing the commissioned activity.

12. Submission of Documents on Vaccination (Immunization) Against Measles and Rubella and Antibody Results

Kobe University has established a "Measles and Rubella Registration System" and is requesting the submission of (i), (ii), or (iii) as listed below for all the newly enrolled students in order to prevent measles and rubella from contagiously spreading across its campus after their enrollment.

- (i) Document to prove that the student has been immunized twice for both measles and rubella.
- (ii) Document to prove that the student has been immunized at least once for both measles and rubella within the last five years.
- (iii) Document to prove that the results of antibody tests administered within the last five years is "indicating sufficient antibody titer in blood (see the table below) to prevent the onset of measles and rubella."

- * The vaccination under (i) and (ii) may be with a combined vaccine for measles and rubella (MR vaccine) or any other combined vaccine.
- * In the case of (i) and (ii), the description of the type of vaccine used for the immunization and the immunization date is required. In addition to the document issued by medical institutions, the proof document may be a certification of immunization issued for the phase 4 (at the age of the sixth grade in a high school) of MR vaccine administered in the period from April 1, 2008, to March 31, 2013. The certification of immunization issued for phase 4 immunization may be one of the required immunizations under (i) above, or if administered within the last five years, it may be used as the requirement under (ii) above.
- * A maternity passbook may also be used as one of the documents under (i) and (ii), provided that the type of vaccine used for the immunization and the immunization date are described. If only anamneses (description of the disease experience) is provided, and no test results as the basis of the diagnosis is provided in the document, please submit the document under (iii) or take any required immunization and submit the

document(s) under (i) or (ii).

- * The document under (iii) must be provided with the measurement method of the antibody titer in blood as seen in the table below and measured figures, and the measured figures must be within the criteria for acceptable results. The blood test result slip is also acceptable. If the antibody titer in blood is insufficient, please go through any immunization required and submit the document(s) listed under (i) or (ii).
- * With respect to the combination of (i), (ii) and (iii), the documents under (i) for measles and the documents under (iii) for rubella may be acceptable, for example.
- * If your antibody titer in blood is insufficient but you cannot be vaccinated because of an unavoidable reason, then please submit a document describing this (e.g. proof prepared by a doctor).
- * None of the aforementioned documents are used for the evaluation of your admission test results.

Submission due date: The day of the health inspection for newly enrolled students in the case of the students enrolled in April, and the day of the health inspection for the enrolled students in the case of the students enrolled in October. The documents should be submitted to the Medical Center for Student Health

The Measurement Method and Evaluation Criteria of Sufficient Value of Antibody Titer in Blood to Prevent the Onset of Measles and Rubella

Category	Measurement Method	Evaluation Criteria	Notes
Measles	IgG-EIA Method PA Method NT Method	Positive at 8.0 or above Positive at 128 times or above Positive at 4 times or above	Positive in one of the three measurement methods
Rubella	IgG-EIA Method HI Method	Positive at 8.0 or above Positive at 32 times or above	Positive in one of the two measurement methods

The measurement should be performed by the methods listed in this table. The value of sufficient antibody titer in blood to prevent the onset varies depending on the measurement methods. A special note should be considered as the value is higher than the value that is deemed simply antibody-positive.

- * Please obtain the required certification documents by showing this Application Guide to the doctor when visiting a medical institution. (Particularly when you are taking the antibody test, please ask the doctor to verify the measurement methods and evaluation criteria.)

Contact for inquiries on epidemic prevention measures:

Kobe University Medical Center for Student Health Tel: +81-(0)78-803-5245

Student Support Section at Kobe University Academic Affairs Department: Tel: +81-(0)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, Date, and Venue of Examinations

Subjects (for Special Entrance Examination for International Students)

Department	Subjects				Items to be used except for writing stationery
	Special Subject (1)	Special Subject (2)	Foreign Language	Interview	
Department of Architecture	The applicant applying for a faculty member of group A must take Architecture Planning, City Planning and History of Architecture examinations.	The applicant applying for a faculty member of group B must take Architectural Structure and Structural Material examinations. The applicant applying for a faculty member of group C must take the Environmental Engineering examination.	(Note 1) English (Note 9) Japanese	Interview	Not Available
Department of Civil Engineering	Mathematics (linear algebra, differential and integral calculus, differential equations, and probability and statistics)	(Note 2) Structural Mechanics, Hydraulics Soil Mechanics, Civil Engineering Project Select two of the four subjects listed above	(Note 3) English (Note 10) Japanese	Interview	Scale A rental calculator will be supplied.
(Note 4) Department of Electrical and Electronic Engineering	Mathematics (linear algebra, differential and integral calculus, ordinary differential equations, complex function theory, and Fourier analyses) Electromagnetics Electric and Electronic Circuits	Materials Science and Engineering, Quantum Physics, Electric Power Engineering, Automatic Control, Information Theory, Logic Circuit (Note 5) Select two of the six subjects listed above	(Note 6) English (Note 10) Japanese	Interview	Set square
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	(Note 7) English (Note 10) Japanese	Interview	Not Available
Department of Chemical Science and Engineering	Evaluated by Interview		(Note 8) English (Note 10) Japanese	Interview	Not Available

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

Please visit our Department of Architecture website for more details.

(<http://www.arch.eng.kobe-u.ac.jp/>) (in Japanese)

(Note 2) Please visit our Department of Civil Engineering website for an overview of the problems covered in the Special Subject examinations. (<http://www.shimin.eng.kobe-u.ac.jp/>)

(Note 3) Evaluated by the TOEIC or TOEFL Score. For information on score validity, please refer to “4. Application Documents”. Please visit our Department of Civil Engineering website for more details. (<http://www.shimin.eng.kobe-u.ac.jp/>)

(Note 4) Please visit our Department of Electrical and Electronic Engineering website (<http://www.eeddept.kobe-u.ac.jp>) (in Japanese) for an overview of the problems covered in the Special Subject examinations.

(Note 5) Select two 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)
1-4	Materials Science and Engineering, Quantum Physics, Electric Power Engineering
5	Quantum Physics, Electric Power Engineering, Automatic Control
6-10	Automatic Control, Information Theory, Logic Circuit

(Note 6) Evaluated by the score for the TOEIC test or TOEFL test. For information on score validity, please refer to “4. Application Documents”. Any official certificate without the photo of the applicant is not acceptable.

(Note 7) Evaluated by the TOEIC or TOEFL Score. For information on score validity, please refer to “4. Application Documents”. Please visit our Department of Mechanical Engineering website for more details. (<http://www.mech.eng.kobe-u.ac.jp/>) (in Japanese)

(Note 8) Evaluated by the score for the TOEIC test. (or equivalent reference material to verify the English proficiency) . For information on score validity, please refer to “4. Application Documents”.

(Note 9) Japanese is evaluated during the interview. If you want to take an examination in English, English proficiency is evaluated during the interview.

(Note 10) Japanese is evaluated during the interview.

Examination Dates (for Special Entrance Examination for International Students)

Please note that the examination dates are different for each department.

Department of Architecture

Date	Time	Subjects
Aug. 27 (Mon)	10:30–12:30	Special Subject (1): Architecture Planning; City Planning; History of Architecture (Only for the applicant applying for a faculty member of group A)
		Special Subject (2): Architectural Structure; 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)
Aug. 28 (Tue)	9:30–	Interview

Department of Civil Engineering

Date	Time	Subjects
Aug. 20 (Mon)	9:30–10:30	Special Subject (2): Structural Mechanics
	11:00–12:00	Special Subject (2): Hydraulics
	13:00–14:00	Special Subject (1): Mathematics
	14:30–15:30	Special Subject (2): Soil Mechanics
	16:00–17:00	Special Subject (2): Civil Engineering Project
Aug. 21 (Tue)	10:00–13:00	Interview

Department of Electrical and Electronic Engineering

Date	Time	Subjects
Aug. 27 (Mon)	9:30–11:00	Special Subject (1): Mathematics
	11:30–13:00	Special Subject (2)
	14:30–16:30	Special Subject (1): Electromagnetics Electric and Electronic Circuits
Aug. 28 (Tue)	14:00–17:00	Interview

Department of Mechanical Engineering

Date	Time	Subjects
Aug. 27 (Mon)	9:30–11:00	Special Subject (1): Mathematics
	11:20–12:20	Special Subject (2): Mechanics of Materials
	13:20–14:20	Special Subject (2): Fluid Dynamics
	14:40–15:40	Special Subject (2): Thermodynamics
Aug. 28 (Tue)	9:30–10:30	Special Subject (2): Fundamental Mechanics and Vibration
	10:50–11:50	Special Subject (2): Production Engineering and Control Engineering
	13:30–	Interview

Department of Chemical Science and Engineering

Date	Time	Subjects
Aug. 28 (Tue)	14:00–	Interview

Examination Venue

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, 2018.

(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 Tuesday, June 19, 2018 to Thursday, June 21, 2018.

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. on Thursday, June 21, 2018.

Also, please add "**Application Documents for the Eligibility Evaluation of Master's Degree Program (Enrollment in April 2019) 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 362 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 Thursday, July 5, 2018.

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 400 JPY. It should be noted that "Application Documents for the Eligibility Evaluation of Master's Degree Program (Enrollment in April **2019**) 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

The enrollment examination fee is 30,000 JPY. If you are transferring payment from a financial institution outside Japan, please ensure that you are paying the enrollment examination fee of 30,000 JPY denominated in Japanese yen to the financial institution indicated below:

The sender of the funds is responsible for any transfer fee charged by the financial institution located outside Japan. Kobe University is responsible for any fees (e.g. currency exchange fee to JPY) other than the transfer fee. You cannot make payment by international remittance check. Please attach a photocopy of your Telegraphic Transfer Request to the Application Form.

Bank name	Sumitomo Mitsui Banking Corporation
Bank code	0009
Swift Code	SMBCJPJT
Branch	Rokko
Branch Code	421
Account No.	4142727
Recipient	Kobe University

In addition, please include the following information, if possible.

Purpose of Remittance: Entrance Examination Fee

Message to Payee, if any: Please indicate "M60: Applicant's full name"

*Please put "M60" before your name.

IV Information on the Master's Program Curricula (Enrollment in April 2019) 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.

Health, Welfare, and Medical Engineering Course:

Improvement in medical technology and the development of diagnostic devices that are solely dependent on medical knowledge have limits in providing solutions to the serious issues of an insufficient number of medical facilities, lack of healthcare professionals, medical malpractice, rising medical fees, and regional disparities that are attributable to the declining birthrate and aging population. On the other hand, there have been remarkable numbers of contributions by engineering to the medical and welfare fields, and active research and development activities for the medical devices, artificial organs, robots, information communication technology, system management, pharmaceutical studies, barrier-free and other aspects of our living environment, and the establishment of emergency response systems are underway. However, the liaison is insufficient between the medical field, which deals with the human body, and the engineering field, which deals with objects, so that the establishment of an integrated educational system and research platform is the key to the full-scale coalition between the medical and engineering fields. This course cultivates engineering experts with in-depth health, welfare and medical knowledge by means of its curriculum structure that systematically integrates engineering with the information, medical, and welfare technologies.

Fostering Interdisciplinary Viewpoints:

The Graduate School promotes the cultivation of interdisciplinary viewpoints by designating a required elective subject of Advanced Science and Technology I that is established as a subject common to five natural science graduate schools (science, engineering, system informatics, agricultural science, and maritime sciences).

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, History and Theory	3 fields
	Engineering of Building Structures	3 fields
	Architectural Environmental Engineering	3 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	Thermo-Fluid Dynamics	4 fields
	Mechanics and Physics of Materials	4 fields
	Design and Manufacturing	5 fields
Department of Chemical Science and Engineering	Applied Chemistry	3 fields
	Chemical Engineering	3 fields
(Total) 5 departments	13 divisions	54 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 urban design, housing and community design, and management of structural engineering and designing; (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) safety of buildings, analysis of dynamic behavior and structure of the components and joining used in various structures, performance improvement and structural system of aseismic structures, and seismic control structures and their safety against earthquakes; and the (iv) analysis and control of acoustic, thermal, atmospheric and lighting environment of buildings, and analysis of rural and urban environments.

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, transfer, 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 three divisions including Thermo-Fluid Dynamics, Mechanics and Physics of Materials, and Design and Manufacturing.

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.

Department	Number	Education/Research Fields	Staff	The Study Contents
A G r o u p N o t e 2	1	History and Theory of Architecture, Theory of Historical Environments	KURODA, Ryuji (Note1)	History of Japanese Architecture, Research on Historical Buildings
	2		NAKAE, Ken	History and Theory of Modern Architecture
	3	Planning Theory of Built Environment	YAMAZAKI, Juichi	Living Environmental Planning and Design, Regional and Dwelling Planning
	4		KONDO, Tamiyo	Planning for the Built Environment, Housing Policy, Post-disaster Housing Recovery
	5	Urban and Architectural Safety Planning	HOKUGO, Akihiko	urban safety management, urban resilience, fire safety in built environment, community based disaster management
	6	Architectural and Urban Design	ENDO, Shuhei	Architecture Design
	7		TSUKIHASHI, Osamu	Practical Theory for Architecture and Urban Design
	8	Housing and Community Design	SUEKANE, Shingo	Architectural Theory and Design
	9		KURIYAMA, Naoko	Urban Landscape Policy, Urban Planning, Urban Design, Urban Regeneration, Community Planning
A r c h i t e c t u r e B G r o u p N o t e 2	10	Structural Engineering and Design	TAGA, Kenzo	Structural Engineering and Design, Huge Earthquake Ground Motions, Ultra-High Strength Steel, Environmentally Friendly Buildings
	11	Building Management	FUJINAGA, Takashi	Composite Structures, Hybrid Structures, Seismic Retrofitting
	12		OHTANI, Yasuhiro	Life-cycle Management of Building, Damage and Fracture Process, Composite and/or Hybrid Structures, Recycled Material, Stress Analysis
	13	Structural Performance Engineering	SUN, Yuping	Earthquake-Resilient Structures, Seismic Design, High Strength Materials, Seismic Retrofit, Wind-Resistance Engineering
	14		TANAKA, Tsuyoshi	Steel Structures, Composite Structures, Connections
	15		NAMBA, Hisashi	Steel Structures, Timber Structures
	16	Structural Control in Dynamics	FUJITANI, Hideo	Structural control, Target performance of seismic control structure, Retrofit by response control
	17		MUKAI, Yoichi	structural control, structural monitoring, structural analysis, impulsive action, wooden structure
	18	Structural Systems Engineering	TANI, Akinori	Planning and Control System of Structures, Performance Monitoring of Structures
19	YAMABE, Yuichiro		Structural Planning, Optimization of Structural System, Behavioral Simulation	
C G r o u p N o t e 2	20	Planning of Acoustical and Lighting Environments	SAKAGAMI, Kimihiro	Structural Engineering and Design, Huge Earthquake Ground Motions, Ultra-High Strength Steel, Environmentally Friendly Buildings
	21		SATO, Hayato	evaluation of sound environment, speech transmission performance, auditory guide signal, speech privacy
	22		SUZUKI, Hirota	Lighting Environment Planning, Visual Environment Analysis, Daylighting, Lampshade Design
	23	Thermal Environmental Planning	TAKADA, Satoru	Architectural environmental system, Simultaneous heat and moisture transfer, Thermal comfort, Heat transfer in buildings, Hygrothermal material properties
	24	Planning of Urban Environment and M&E Services	TAKEBAYASHI, Hideki	Urban thermal environment, Heat island, Wind environment, Green roof, Energy conservation

(Note1) The faculty member is scheduled to retire in March 2020

(Note2) 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/>)

Department	Divisions	Number	Education/Research Fields	Staff	The Study Contents(Keyword)
C i v i l E n g i n e e r i n g	Engineering of Human Safety	C1	Structural Engineering for Urban Safety	AKUTAGAWA, Shinichi	Rock mechanicsnumerical simulation, underground space usage, non-destructive stress measurement, on-site visualization, safety management
		C2		MIKI, Tomohiro	Structural concrete, Maintenance, Nonlinear analysis, Seismic performance evaluation, Residual Performance evaluation, Image analysis
		C3	Geotechnical Engineering for Human Safety	SHIBUYA, Satoru	Geotechnical Engineering, Geomaterial Properties, Engineering for Disaster Mitigation
		C4		KATAOKA, Satsuki	Geotechnical Engineering, Geomaterial Properties, Geotechnical Engineering for Disaster Prevention, Recycle Material
		C5	Transport Systems Engineering	KITA, Hideyuki (Note1)	Infrastructure planning, Quality of service, Transportation systems analysis, Public transport planning
		C6		IRYO, Takamasa	Traffic Engineering, Transport Network Analysis, Travel Behaviour Analysis
		C7	Geotechnical Engineering for Disaster Reduction	TAKEYAMA, Tomohide	Geotechnical Engineering, Soil-water coupled FEM, Soil-water coupled SPH, Liquefaction, Landslide, Large-scale simulation
		C8	Earthquake disaster mitigation engineering	NAGAO, Takeshi	earthquake engineering, evaluation of earthquake ground motion, earthquake resistance analysis, structural design engineering, performance-based design, reliability-based design
		C9		KUWATA, Yasuko	Lifeline earthquake engineering, Strong ground motion assessment, Seismic response analysis, Experiment on buried pipe, Earthquake disaster prevention, Seismic risk assessment
		C10	River Basin Management Engineering	FUJITA, Ichiro (Note1)	river engineering, flow image analysis, inundation analysis, flood measurement, turbulent flow analysis, local remote sensing
		C11		KOBAYASHI, Kenichiro	Hydrology, river engineering, GIS, urban flood inundation, economic loss estimation, evacuation behavior, ensemble flood prediction
	Engineering of Environmental Symbiosis	Environmental Fluid Engineering	C12	UCHIYAMA, Yusuke	Coastal engineering, Coastal oceanography, Ocean waves, Turbulence, Ocean modeling, Ocean environment
			C13	SAITO, Masahiko	hydraulics, groundwater hydrology, environmental groundwater modeling, seepage flow simulation, multi-phase flow analysis
		C14	Aquatic and Environmental Engineering	NAKAYAMA, Keisuke	Environmental Engineering, Applied Ecology, Environmental Fluid Dynamic, Climate Change, Solitary Wave, Internal Wave
		C15	Geosphere Environmental Engineering	OISHI, Satoru	Application of Meteorology to Water Related Disaster, Detection and Forecasting of precipitation by advanced radar, water resources issue in devastated area, hydrology, water resources
		C16		KAJIKAWA, Yoshiyuki	Meteorology, Climatology, Climate Change, Monsoons, Diagnostic study, Numerical Simulation, Deep Convection, Heavy rainfall
		C17		KATO, Shoji	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
		C18		YOSIDA,Ryuji	Meteorology, Tropical Cyclone, Moist Convection, Numerical Simulation
		C19	Geo-environmental Engineering	IIZUKA, Atsushi	Unsaturated and Saturated Soil Water Coupling Analysis, Quality Evaluation of Earth Structure, Geomaterials for Reducing Environmental Impact
		C20		TACHIBANA, Shinya	Geo-environmental Engineering, Geo-environmental Risk Evaluation, Geo-multiphysics, Constitutive Modeling of Geomaterials
		C21	Urban Preservation Engineering	MORIKAWA, Hidenori	Concrete Engineering, Structural Diagnostics, Maintenance, Prestressed Concrete Bridge
		C22		HASHIMOTO, Kunitaro	Steel structure, Hybrid structure, Connection, Load carrying capacity, Seismic design, Corrosion, Fatigue
		C23	Urban Systems Engineering and Management	KOIKE, Atsushi	Infrastructure Planning and Management, Project Evaluation, Applied Economics, Cost Benefit Analysis.
		C24		OTAZAWA, Toshimori	Infrastructure Economics, Regional Science
		C25		SEYA, Hajime	Geographic information science, spatial econometrics, spatial statistics, travel behavior analysis

(Note1) The faculty member is scheduled to retire in March 2020

Department	Number	Education/Research Fields	Staff	The Study Contents (Keyword)
D e p a r t m e n t o f E l e c t r i c a l a n d E l e c t r o n i c E n g i n e e r i n g	1	Mesoscopic Materials	FUJII, Minoru;KANO, Shinya;SUGIMOTO, Hiroshi	Nano-photonics materials, Nano-electronics materials, Nano-electronics devices, Plasmonics, Silicon photonics
	2	Photonic Materials	KITA, Takashi;KOJIMA, Osamu; HARADA, Yukihiko; KAIZU, Toshiyuki	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
	3A	Quantum Functional Engineering	MORIWAKI, Kazuyuki (Note1)	Photonic Materials and Devices, Silica-Based Glass materials, Optical-Communication Devices, Biosensor, Applications by Synchrotron Radiation, Microfabrication Technology
	3B		KITAMURA, Masatoshi; HATTORI, Yoshiaki	Organic electronics, Organic transistors, Organic-inorganic hybrid devices, Oxide semiconductor devices, flexible electronics materials
	4	Nano-Structure Electronics	OGAWA, Matsuto; SOUMA, Satofumi	Computational nanoelectronics, nano material design, ultimate CMOS design, spin/molecular electronics device design, computational design of highly-efficient quantum structure solar cells.
	5	Electromagnetic Energy Physics	TAKENO, Hiromasa; YONEMORI, Hideto	electromagnetic phenomena, plasma electronics, nuclear fusion, energy conversion, power electronics, bio-applied electronics, intensive electromagnetic wave
	6	Integrated Circuit Information	NUMA, Masahiro; KUROKI, Nobutaka; HIROSE, Tetsuya	Analog/Digital Integrated Circuit Design, Ultra-Low-Power Circuit Design, LSI CAD, Smart Sensor, Image Processing, Multimedia Recognition
	7	Computer Engineering	TSUKAMOTO, Masahiko; TERADA, Tsutomu	Wearable computing, Ubiquitous computing, Entertainment computing, Music informatics, Sensor network, Broadcast computing
	8	Information and Communication Engineering	MORII, Masakatu;SHIRAISHI, Yoshiaki	Internet Applications, Mobile Communications, Ubiquitous Networks, Network Security, Computer Security, Information Hiding, Data Compression, Cryptography, Coding Theory, Information Theory
	9	Algorithms	MASUDA, Sumio;YAMAGUCHI, Kazuaki	algorithms, data structures, data retrieval, data analysis, information visualization, graph theory, combinatorial optimization, complexity theory, discrete mathematics, geographic information processing
10	Intelligent Learning Theory	OZAWA, Seiichi; OMORI, Toshiaki	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 2020

Department	Divisions	Fields Code	Education/Research Fields	Staff	The Study Contents (Keyword)
Mechanical Engineering	THERMO-FLUID DYNAMICS	MH-1	Applied Fluid Mechanics	KATAOKA, Takeshi	Classical fluid dynamics, Nonlinear flow phenomena, Water wave, Internal gravity wave, Breaking wave, Acoustic wave, Stratified fluid, Computational fluid dynamics, Lattice Boltzmann method
		MH-2	Multiphase Thermo-fluid Dynamics	(Note2)	
		MH-3	Energy Conversion Engineering	ASANO, Hiroshi; MURAKAWA,Hideki; SUGIMOTO,Katsumi	Multiphase flow, Boiling and condensation heat transfer, Neutron radiography, Ultrasonic measurement, Heat exchanger, Thermal control devices, Fuel cell, Refrigerating and heat pump system, Geothermal utilization
		MH-4	Energy and Environmental Engineering	TOMIYAMA,Akio; HOSOKAWA,Shigeo; HAYASHI,Kosuke	Bubble dynamics, Drop dynamics, Turbulent flow, Mass transfer, Optical measurement, Computational multiphase flow dynamics, Nuclear thermalhydraulics, Gas-to-liquid
	MECHANICS AND PHYSICS OF MATERIALS	MM-1	Solid Mechanics	SAKAGAMI,Takahide; SHIOZAWA,Daiki	Structural integrity evaluation, Inverse problem, Non-destructive evaluation, Maintenance engineering, Infrared measurement, Terahertz electromagnetic waves measurement
		MM-2	Fracture Control Engineering Laboratory	NAKAI,Yoshikazu (Note1); TANAKA,Hiroshi;	Strength and fracture of engineering materials, Fracture mechanics, Fatigue of materials, Ultra-bright synchrotron radiation imaging, Micromaterial, Metallic material, Composite material
		MM-3	Material Science	MUKAI,Toshiji; TAGAWA,Masahito; FUJII,Yoshikazu; IKEO,Naoko	Macro- and Micro-structure design, Microstructure modification, Strengthening mechanism, Structural materials, Metallic biomaterials, Biodegradable materials, Space materials, Space environmental effect, Electric propulsion, Beam-induced surface reaction, Applied engineering with using X-ray and electron beams, Nanostructure analysis, Radiation physics, Diffraction physics, Surface/interface structure analysis
		MM-4	Surface, Interface and Tribology	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
	DESIGN AND MANUFACTURING	MA-1	Complex Mechanical Systems Engineering	YOKOKOHJI,Yasuyoshi; TAZAKI,Yuichi	Robotic Hand, Teleoperation System, Haptic Device, Hydraulic Robot, Biomechanics of Human Hand, Walking Robot, Mobile Robot, Environment Recognition, Map Generation, Model Predictive Control
		MA-2	Machine dynamics	KANNO,Isaku; HIDA,Hiroataka	Thin film, Sensor, Actuator, Piezoelectric device, micro-TAS, Plant in a chip, Energy harvesting, Thin-film battery, micro-robot, Photoexcited electrochemical device
		MA-3	Computer Integrated Manufacturing Systems	SHIRASE,Keiichi; SATO,Ryuta; 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, Modal analysis, Mathematical model, Simulation, Motion control, Positioning, Linear motor, Ball screw, Power consumption
		MA-4	Intelligent Artifacts & Manufacturing Systems	ISONO,Yoshitada; SUGANO,Koji	MEMS/NEMS (Micro/nanomachine), Microsensor, Microactuator, Experimental nanomechanics, Semiconductive nanowire, Multiphysics, Micro physical measurement, Surface plasmon, Bio/chemical sensor, Microfluidic device
		MA-5	Creative Design	TSUMAYA,Akira	Design, Creativity, Decision making, Synthesis, Environment, Knowledge, Perspective, Lifecycle

(Note1) The faculty member is scheduled to retire in March 2020

(Note2) Please refrain from selecting this as your preferred education/research field since there are currently no supervisory staff for this field.

Department	Number	Education/Research Fields	Staff	Keywords
Chemical Science and Engineering	1	Creative Materials Chemistry	MORI, Atsunori; OKANO, Kentaro; SUZUKI, Toyoko	Transition metal catalysis, Polymer syntheses, Advanced organic materials
	2		MIZUHATA, Minoru; MAKI, Hedeshi; MATSUI, Masaki	Inorganic materials, Electrochemistry, Materials for energy conversion, Highly concentrated solution, Molten salt chemistry, Liquid phase deposition, Relaxative auto-dispersion, Solid-liquid coexisting systems, Hetero-
	3		OKADA, Etsuji	Heterocyclic chemistry, Fluorine chemistry, Biologically active substances, Functional materials, Exploratory research on medicines and agrochemicals
	4		MINAMI, Hideto	Polymer synthesis, Soft matter, Polymer particles, Interface, Heterogeneous polymerization
	5	Smart Materials Chemistry	NISHINO, Takashi; MATSUMOTO, Takuya	Polymer property, Polymer structure, Polymer surface and interface, Composite, Adhesion
	6		ISHIDA, Kenji; FUKUSHIMA, Tatsuya	Material physical chemistry, Thin film growth, Organic electronics and optics, Dipole engineering, Molecular sensor and actuators,
	7	Functional Materials Chemistry	TAKEUCHI, Toshifumi; KITAYAMA Yukiya	Molecular recognition, Functional gel, Polymer particles, Molecular imprinting, Biosensor
	8		KAJINAMI, Akihiko	Inorganic polymer chemistry, Inorganic phosphates, Inorganic energy chemistry, Environmental
	9		OOYA, Tooru	Biofunctional materials, Drug delivery system, Cell/Tissue engineering, Biomaterial
	10	Separation and Reaction Engineering	MATSUYAMA, Hideto; KAMIO, Eiji	Membrane separation, Separation based on reaction and diffusion, Control of microporous structure, Water treatment, Gas separation
	11		NISHIYAMA, Satoru; ICHIHASHI, Yuichi; TANIYA, Keita	Catalyst, Catalytic reaction engineering, Selective oxidation, Selective reduction, Surface science, Material science, Photocatalyst, Photocatalysis, Energy conversion,
	12		MARUYAMA, Tatsuo	Interface, Surface functionalization, Surfactant, Polymer, Biomolecule
	13	Process Engineering	OHMURA, Naoto; KOMODA, Yoshiyuki; TSURUTA, Hiroki; KURATANI, Kentaro; HORIE, Takafumi	Process intensification, Process dynamics, Reactor, Functional film
	14		SUZUKI, Hiroshi; HIDEMA, Ruri	Rheology, Complex fluid, Latent heat transportation, Drag reduction
	15		IMAKOMA, Hironobu (Note1)	Coating drying, Drying model, Material-temperature change method, Microwave drying
	16	Biochemical Engineering	YAMAJI, Hideki; KATSUDA, Tomohisa	Bioprocess, Bioreactor, Cell culture engineering, Recombinant protein production, Bioseparation
	17		OGINO, Chiaki; TANAKA, Tsutomu	Bioproduction, Biorefinery, Synthetic bioengineering, Protein engineering, Nanobio technology

(Note1) The faculty member is scheduled to retire in March 2020

Academic year 2019



Application form for special entrance examination for international students: Master's Program in Engineering, Graduate School of Engineering, Kobe University

Examinee's ID Number *	Do not fill in the sections marked with an asterisk (*).	
<p>To: President of Kobe University</p> <p>I hereby express my wish to enroll in a Master's Program at the Graduate School of Engineering.</p> <p>Reading Name Male / Female</p> <p>Date of birth [year / month / date] (Age:)</p>		
Preferred Department: Department of		
Requirement to application		
<input type="checkbox"/> I have completed an undergraduate program or will have completed an undergraduate program by March 31, 2019.		
Alma Mater		
University School	Faculty	Department
Date of graduation/completion (prospective): [year / month / date]		
Student ID number (applicable to current Kobe University students):		

Candidates wishing to apply for the special entrance examination for exchange students must fill in the sections under "Details of candidates enrolling to the special entrance examination for exchange students" below.

Refer to the section "Fields of academic research, professors and research topics (keywords)" and use the corresponding digits and codes to fill in the section provided below, specifying the fields of study, etc.

Details of candidates enrolling to the special entrance examination for exchange students

1. Department of Architecture

[Desired fields of study] Specify three fields of study you wish to enroll. Note that the second and third desired fields of study must be selected from the same group as the first choice (A, B or C).

1st choice	2nd choice	3rd choice

[Choice of courses] Mark your choice with a circle over A, B or C. This must be your 1st choice.

- A Architectural Planning, Urban Planning, History of Architecture
- B Building Structures, Building Materials
- C Environmental Engineering

Name		Entrant ID Number	*
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Details of candidates enrolling to the special entrance examination for exchange students

2. Department of Civil Engineering

[Desired field of study] Specify only one field of study you wish to enroll.

1st choice

[Choice of courses]

Make two choices from the specialist courses (2) shown below and mark them with a circle (exchange students only).

Specialist courses (2)			
Structural Mechanics	Hydraulics	Soil Mechanics	Infrastructure Planning and Management

3. Department of Electrical and Electronic Engineering

[Desired field of study] Specify only one field of study you wish to enroll.

1st choice

[Choice of courses] (Exchange students only)

Make two choices from the six options in the specialist courses (2) shown below and mark them with a circle. See Note 5 on page 13 for instructions on how to make your selections.

Specialist courses (2)		
Material Properties Engineering	Quantum Mechanics	Electrical Engineering
Autonomous Control	Information Theory	Logic Circuits

4. Department of Mechanical Engineering

[Desired field of study] Specify only one field of study you wish to enroll.

*Do not select MH-2 due to the delay in assignment of a teaching professor.

1st choice

[Choice of courses] Make three choices from the specialist courses (2) shown below and mark them with a circle.

	Specialist courses (2)									
Subject	Mechanics of Materials		Fluid Dynamics		Thermodynamics		Fundamental Mechanics and Vibration		Production Engineering and Control Engineering	
Request an English translation	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No

5. Department of Chemical Science and Engineering

[Desired fields of study] You may specify up to three fields of study you wish to enroll.

1st choice	2nd choice	3rd choice