

Application Guidelines for 2017

INTEGRATED GRADUATE SCHOOL OF
MEDICINE, ENGINEERING, AND AGRICULTURAL SCIENCES

MASTER'S COURSE

(DEPARTMENT OF ENGINEERING)

(If you are Japanese or can read Japanese, see the Japanese version.)



University of Yamaguchi

(<http://www.yamaguchi.ac.jp/en/>)

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| Attached forms (enclosed) |
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Special Selection for Preferred Applicants

- Attached Form 1: Entrance Application Form, Examination Admission Slip, and Examination Fee Receipt Affixation Sheet
- Attached Form 2: Letter of Recommendation
- Attached Form 3: Statement of Purpose
- Attached Form 4: Research Project Plan

General Selection

- Attached Form 1: Entrance Application Form, Examination Admission Slip, and Examination Fee Receipt Affixation Sheet
- Attached Form 2: Statement of Purpose
- Attached Form 3: Research Project Plan

- Payment Form
- Application Slip and Address Slip
- Return Envelope

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| <<References>> |
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Department of Academic Affairs Support
Office of Admissions, University of Yamanashi
4-4-37 Takeda, Kofu
Yamanashi-ken 400-8510 Japan
Tel: 055-220-8046

| |
|-------------------------------------|
| <<Office hours>> |
|-------------------------------------|

Between 8:30 and 17:00, weekdays
(Except for public holidays, August 12 through 16
and December 29 through January 3)

<<ADMISSIONS POLICY>>

The Principles, Aims, and Admissions Policy of the Integrated Graduate School of Medicine, Engineering, and Agricultural Sciences

[Principles and Aims]

The aims of our education and research programs are as follows: to cultivate superior scholars who can apply their academic studies to solution of the problems faced by today's society, and who, from a global perspective, can creatively improve upon these applied solutions; and to cultivate competent business specialists equipped with high-grade academic knowledge.

[Educational Objectives]

We nurture those who, as professional engineers and researchers, will contribute to society using their expertise, development capability, ability to identify and solve problems, and international communication skills.

[Admissions Policy]

We invite to join our programs students with a basic academic foundation in their field of specialization, who are motivated to seek further knowledge and pursue advanced research and applications, and who have a desire to give back to society.

Department of Engineering

We seek individuals who are motivated to acquire expertise in their major field, clear insight into engineering, and international sense and communication skills, and who intend to use their skills and pioneering spirit to make creative contributions to social and industrial development.

• Mechanical Engineering Course

We receive students who wish to satisfy society's diversifying needs by acquiring the most advanced technological know-how in the automobile, aerospace, medical engineering, power and energy systems fields, in addition to broadening their knowledge and skills in mechanical engineering fields such as machinery physics, production technology engineering, and systems design engineering. We also seek students who want to take an active part in the international community by acquiring communication skills from a global perspective.

• Electrical and Electronic Engineering Course

We seek those who want to develop their ability to solving technical problems and become active forces in the engineering industry by mastering fundamental knowledge and acquiring specialized expertise in electronics, photoelectronic devices, circuit design, power control, communication, and other cutting-edge technologies.

• Computer Science and Engineering Course

Prospective students should aspire to become professionals with a broad perspective of the field of information technology. Students should strive to acquire advanced knowledge and skills in the field, to become adept at analytical thinking, and to improve their capacity to solve engineering problems under constraints.

- Mechatronics Course

We seek applicants who aspire to lead the “Manufacturing industry” (*Monodzukuri* in Japanese) and to solve problems by integrating their skills in problem identification, communication, and knowledge application. Applicants should be motivated to develop all these skills based on hybrid knowledge of mechanical, electrical, and computer technologies, which are offered by our department.

- Civil and Environmental Engineering Course

This program is designed for students who intend to acquire expertise and research skill in civil and environmental engineering, and who want to work toward establishment of new-era infrastructure that supports a safe and sustainable society in harmony with the environment.

- Applied Chemistry Course

We seek individuals who wish to contribute to innovative developments for future society through creative research and studies founded on broad and international perspectives, utilizing high-level knowledge and technological proficiency in basic applied chemistry fields such as organic chemistry, inorganic chemistry, analytical chemistry, physical chemistry, and polymer chemistry.

- Advanced Material Science Course

We seek students who are highly motivated and qualified to create our future world by processing advanced materials and pursuing their complex functions through physical and chemical manipulation of atoms and molecules.

- Special Educational Program on River Basin Environmental Science

Interdisciplinary Centre for River Basin Environment (ICRE) fosters young experts who can understand the diversity of regions and communities, identify area-specific environmental and water issues, and implement practical solutions. We study flood and drought risk analyses, the conservation and relocation of water resources, the identification of pollution sources and processes, the development of locally fitted treatments for drinking and wastewater, the evaluation of health and socio-economic impact, and more.

- Special Educational Program for Green Energy Conversion Science and Technology

We seek individuals eager to become international scientists and engineers who can contribute to realization of a low-carbon society, utilizing their knowledge and technologies of green energy conversion and storage, including fuel cells, solar cells, and thermoelectric conversion.

This program has been selected as one of **the Leading Programs in Doctoral Education**, supported by Japan’s Ministry of Education, Culture, Sports, Science and Technology.

1 . Overview

Overview

1 Number of Students to be Admitted

| Classification of Application Courses or Programs | Capacity | Number of Students to be Admitted | | | | | Total Number of Students to be Admitted |
|--|----------|--|-------------------|--|------------------------------|--|---|
| | | First Call for Applications | | | Second Call for Applications | | |
| | | Special Selection for Preferred Applicants | General Selection | Special Selection for Working Members of Society | General Selection | Special Selection for Working Members of Society | |
| Mechanical Engineering Course | 181 | 18 | 5 | A few | A few | A few | 23 |
| Electrical and Electronic Engineering Course | | | 23 | A few | A few | A few | 23 |
| Computer Science and Engineering Course | | 16 | 7 | A few | A few | A few | 23 |
| Mechatronics Course | | 15 | 8 | A few | A few | A few | 23 |
| Civil and Environmental Engineering Course | | | 15 | A few | A few | A few | 15 |
| Applied Chemistry Course | | 18 | 8 | A few | A few | A few | 26 |
| Advanced Material Science Course | | 8 | 15 | A few | A few | A few | 23 |
| Special Educational Program on River Basin Environmental Science | | | 10 | A few | A few | A few | 10 |
| Special Educational Program for Green Energy Conversion Science and Technology | | | 15 | | A few | | 15 |
| Total | | 181 | 75 | 106 | | | |

2 Examination Dates

[First Call for Applications]

| | | |
|---|----------------------------|--|
| Application Period | | June 13 (Monday) – June 17 (Friday), 2016 (Must arrive within the application period) |
| Examination of Application Requirements | | An examination of application requirements will be conducted in advance for applicants who apply under certain conditions. Refer to note regarding application requirements. |
| Examination Date | | July 2 (Saturday), 2016 |
| Announcement of Successful Applicants | | July 15 (Friday), 2016 |
| Entrance Procedures | Enrollment in October 2016 | September 16 (Friday), 2016 |
| | Enrollment in April 2017 | March 8 (Wednesday) – March 15 (Wednesday), 2017 |

[Second Call for Applications]

| | | |
|---|----------------------------|--|
| Application Period | | November 7 (Monday) – November 11 (Friday), 2016 (Must arrive in the application period) |
| Examination of Application Requirements | | An examination of application requirements will be conducted in advance for applicants who apply under certain conditions. Refer to note regarding application requirements. |
| Examination Date | | December 3 (Saturday), 2016 |
| Announcement of Successful Applicants | | December 16 (Friday), 2016 |
| Entrance Procedures | Enrollment in April 2017 | March 8 (Wednesday) – March 15 (Wednesday), 2017 |
| | Enrollment in October 2017 | September 15 (Friday), 2017 |

2 . First Call for Applications

Special Selection Application Guideline for Preferred Applicants

The development and growth of science technology are significant these days, and social demand calls for creation of new interdisciplinary research fields transcending the existing academic framework.

From this perspective, in our Master's program (Department of Engineering), we aim to offer distinctive education and research, and, by way of an oral examination and examination of application documents, we encourage special selection of those who actively undertake academic study and research in their specialized field or beyond.

1. Number of Students to be Admitted

| Course | Number of students to be admitted |
|---|-----------------------------------|
| Mechanical Engineering Course | 18 |
| Computer Science and Engineering Course | 16 |
| Mechatronics Course | 15 |
| Applied Chemistry Course | 18 |
| Advanced Material Science Course | 8 |
| Total | 75 |

2. Application Requirements

Applicants who meet at least one of the following requirements, have obtained commendable results in their university or college, have been recommended by their academic advisor, and can assure entrance after the announcement of successful applicants.

- (1) Persons who have graduated or are expected to graduate from a university or college as designated by Article 83 of the School Education Law of Japan (Law #26, 1947) by March 2017 (or September 2016 for candidates desiring enrollment in October 2016).
- (2) Persons who have been awarded a Bachelor's degree according to Article 104, Paragraph 4 of the School Education Law of Japan, or who are expected to complete an advanced course of junior or technical college by March 2017 (or September 2016 for candidates desiring enrollment in October 2016) and be awarded a Bachelor's degree according to the law by March 2017 (or September 2016 for candidates desiring enrollment in October 2016).
- (3) Persons who have completed a 16-year school education program abroad or are expected to do so by March 2017(or September 2016 for candidates desiring enrollment in October 2016).
- (4) Persons who have completed a course or are expected to do so by March 2017 (or September 2016 for candidates desiring enrollment in October 2016) at an educational institution abroad (a graduate of which must have completed a 16-year course in the school education system), which is assessed in Japan to have university courses in that education system, and is specifically designated by the Minister of Education.
- (5) Persons who are recognized by the Minister of Education as having academic ability equal to or higher than persons who are graduates of a university or college.
- (6) Persons who have completed specialized courses specifically designated by the Minister of Education at a vocational school, whose minimum period required for graduation is 4 years or longer and which also satisfies other conditions specified by the Minister of Education, on or after the date designated by the Minister of Education, or are expected to do so by March 2017(or September 2016 for candidates desiring enrollment in October 2016).
- (7) Persons who have spent 3 years or more at a university, or who have completed a 15-year school education program abroad, and who are recognized by our graduate school as having obtained the designated credits with excellent results.

Note:

An examination of application requirements will be conducted in advance for applicants who apply under the conditions of item (7). Please contact the Office of Admissions by May 18 (Wednesday).

3. Application Procedure

- (1) Application period: June 13 (Monday) – June 17 (Friday), 2016
- Use the “Special Application Envelope” attached to these guidelines.
 - Applications by post must be delivered by registered express delivery. They must arrive within the application period.
 - Applications will be received at the campus every day during the application period from 9:00 am to 4:30 pm.

Examination of application requirements for overseas students

An examination of application requirements will be conducted in advance for foreign applicants (overseas students). Please contact the Office of Admissions about application documents, and send them (without the examination fee) by May 16 (Monday) – May 20 (Friday) .

Applicants who apply under the conditions outlined in item (1) of the application requirements listed above will be exempted from the examination of application requirements (no distinction made between government-financed, government-dispatched, and private students).

In some cases, research students (government-financed, government-dispatched, and private) and applicants who received an examination of application requirements until and including last year are exempted from the examination. Please contact the Office of Admissions in advance.

Applicants will be informed of the results of the examination by June 3 (Friday).

- (2) Mailing address: Department of Academic Affairs Support, Office of Admissions, University of Yamanashi
4-4-37 Takeda, Kofu, Yamanashi-ken 400-8510 Japan
Tel: 055-220-8046

4. Application Documents and Necessary Information

Applicants must present the following documents:

| Application document | Description |
|---|---|
| ① Examination Fee Receipt Affixation Sheet (Entrance examination fee: ¥30,000) | Please use the [Designated Payment Form] attached to this guideline to make payment <u>at the cashier’s window</u> of a financial institution (bank or post office). (Payment cannot be made by ATM.) <u>Please ensure you receive an [Examination Fee Receipt] showing the bank’s or post office’s stamp of receipt.</u> Please affix the [Examination Fee Receipt] (original) to the [Examination Fee Receipt Affixation Sheet] before submitting your application. International applicants must send fees from an international financial institution; see the [Notes regarding payment of the examination fee]. |
| ② Entrance Application Form, Examination Admission Slip | Fill in the required information on the Entrance Application Form, attached form 1 (reverse side also). Affix a front-facing, upper body photograph without a hat to the photograph box. The photograph should be no more than three months old at the time of application. (Original photographs only; copied photographs will not be accepted.) |
| ③ Academic Transcript | Submit a certificate prepared by the President of the university from which you received your degree. *Certificates and other documents written in a foreign language other than English must be accompanied by documents translated into Japanese. |

| | |
|---|---|
| ④ Certificate of (Prospective) Graduation | <p>Submit a certificate prepared by the President of the university from which you received your degree.</p> <p>This is not necessary if you are expected to graduate from our university.</p> <p>If you apply under the conditions specified in item (2) of the application requirements, present a certificate of the awarded degree, a certificate of acceptance of application for an awarded degree presented by the National Institution for Academic Degrees and University Evaluation, or a certificate of expected application for an awarded degree prepared by the President of your school.</p> <p>*Certificates and other documents written in a foreign language other than English must be accompanied by documents translated into Japanese.</p> |
| ⑤ Letter of Recommendation | <p>Present the sealed Letter of Recommendation (attached form 2) written by your academic advisor at your university.</p> <p>In all courses, if you have graduated or are expected to graduate from our university, your academic advisor's seal, marked on the Entrance Application Form, may substitute for this letter.</p> |
| ⑥ Statement of Purpose | Use attached form 3. |
| ⑦ Research Project Plan | Use attached form 4. |
| ⑧ Application Slip and Address Slip | Fill in the required information on the appropriate forms attached to this guideline. |
| ⑨ Return Envelope | <p>Clearly write the addressee on the application form and affix a ¥362 stamp.</p> <p><u>This is unnecessary for applicants who submit their applications on site.</u></p> |
| ⑩ Resident Record | <p>Applicants holding nationality in a foreign country, and who also register their residency in a municipality of Japan, are required to submit a Resident Record (Status of residence, Period of stay listed in the Resident Record) delivered by the local government office where they reside.</p> <p>Those who have not registered their residency in a municipality of Japan must submit a copy of their passport.</p> |
| ⑪ TOEIC/TOEFL Test Score | <p>Submit either of the following documents.</p> <p>If you have not yet obtained those certificates when applying, be sure to bring either of them at the time of the examination.</p> <p>(1) If you have taken the TOEIC test, present a copy of the Official Score Certificate, or a copy of the Score Report of the TOEIC-IP test. The score of the test is acceptable only if the test was taken after July 2013</p> <p>Bring the original at the time of the examination.</p> <p>(2) Applicants who have taken TOEFL-iBT or TOEFL-PBT can substitute this score for that of the TOEIC test. Present a copy of the Examinee Score Report. This score is acceptable only if the test was taken after July 2013</p> <p>Bring the original at the time of the examination.</p> |
| ⑫ Other | If you have changed your surname and it appears differently from what is listed on other certificates and documents, please also submit an extract of your family registry. |

[Notes regarding payment of the examination fee]

Foreign applications: Sending money from outside of Japan

The applicant must bear all the costs of the remittance fee: (1) the money transfer fee at the remitting bank outside of Japan, and (2) the receiving charge at the receiving bank, Yamanashi Chuo Bank. Make sure JPY30,000 is transferred to the account of the University of Yamanashi. If the remitting bank cannot transfer the money directly to Yamanashi Chuo Bank, remittance fee must also be paid to an intermediary bank.

| Amount to be paid by the applicant | | | |
|---|--|---|--|
| Remittance to Japan | | | |
| ① Money transfer fee [Bank outside of Japan] | Entrance examination fee, JPY30,000 | ② Receiving charge [Yamanashi Chuo Bank] | ③ Remittance fee for intermediary bank |

[Method of Money Transfer]

Transfer Type: Telegraphic transfer

Payment: Bank transfer

Amount: JPY30,000 + Remittance fees

※1 Please notify the cashier's window that you (the applicant) will bear all remittance fee costs.

※2 Transfer fees and remittance fees for intermediary banks vary by institution. Please confirm the required fees with the remitting bank.

[Back Account]

Name of Bank: The Yamanashi Chuo Bank, Ltd., Takedadori Branch

Address of Bank: 11-1 Takeda 2-chome, Kofu, Yamanashi, Japan

Swift Address: YCHBJPJT

Account Classification: Ordinary deposit

Account Number: 630186

Account Holder: NATIONAL UNIVERSITY CORPORATION UNIVERSITY OF YAMANASHI

Address: 4-37 Takeda 4-chome, Kofu, Yamanashi, Japan

※ After sending the money, do not fail to also submit a copy of the remittance application form with the application documents.

※ When sending money from outside of Japan, please complete all the procedures early, because it will take a long time to confirm receipt of the money.

※ If the amount received is smaller than that required, your application will not be accepted. Also, please note that refunds will not be made even if the amount received is too large.

Please be aware of the following when submitting application documents:

- (1) **Sufficient consultation with the academic supervisor of your preference should be carried out prior to applying.**
- (2) After application documents are received, neither the documents nor the examination fees may be returned.
- (3) For inquiries regarding application procedures, contact the Office of Admissions.
- (4) Once the application procedure is completed, no changes to the documents will be permitted.
- (5) Misrepresentation of any information submitted in relation to this application may result in immediate and unconditional rejection of the application.

5. Selection Method

Successful applicants will be chosen based on an overall assessment including the results of their oral examination and the examination of their application documents.

(1) Oral examination

An interview regarding the applicant's presentation, based on the statement of purpose and research project plan.

Prepare transparencies (for a projector) or an MS PowerPoint file for your oral presentation (if you use presentation software, bring your own PC).

Please be aware of the following in the Computer Science and Engineering Course and Advanced Material Science Course

[Computer Science and Engineering Course]

Applicants should prepare an MS PowerPoint file for their oral presentation and bring their own PC.

[Advanced Material Science Course]

All applicants are required to make presentation using a slide-presentation software such as MS PowerPoint or its alternative software. It is also required to bring their own laptop computer equipped with an analog RGB D-sub 15Pin port. Please bring backup files saved on USB storage devices too. We will interview the issue related to the applicant's presentation and it will include physical and/or chemical fundamental issues.

[Oral examination duration]

| Course | Presentation | Interview |
|---|--------------|------------|
| Mechanical Engineering Course | 10 minutes | 5 minutes |
| Computer Science and Engineering Course | 10 minutes | 15 minutes |
| Mechatronics Course | 10 minutes | 15 minutes |
| Applied Chemistry Course | 5 minutes | 7 minutes |
| Advanced Material Science Course | 10 minutes | 10 minutes |

Notes:

(1) For the Mechanical Engineering, and Mechatronics Courses, the oral examination may be shortened depending on examination of application documents.

(2) For the Computer Science and Engineering Course, preliminary interviews for those who wish to apply for this special program from overseas may be conducted.

Oral examination may be exempted for applicant who had a preliminary interview overseas and submitted a letter of recommendation from the director (or equivalents) of the universities or institutions. The place, date, time and application documents for the preliminary interview will be advised at the time of prearrangement and discussion with your preferred supervisor.

(2) Examination of application documents

[Allocation of Marks]

| Course | Oral Examination | Application Documents | Total |
|---|-------------------|-----------------------|-------|
| Mechanical Engineering Course | 100 | Accepted/Rejected* | 100 |
| Computer Science and Engineering Course | Accepted/Rejected | Accepted/Rejected* | |
| Advanced Material Science Course | 200 | Accepted/Rejected* | 200 |

*Including TOEIC/TOEFL Test Score.

| Course | Oral Examination | Application Documents | TOEIC or TOEFL | Total |
|--------------------------|------------------|-----------------------------|--------------------|-------|
| Mechatronics Course | 100 | Accepted/Rejected | 50 | 150 |
| Applied Chemistry Course | 50 | (Academic Transcript) 50 | Accepted/Rejected* | 100 |

*TOEIC/TOEFL Test Score is judged as Accepted/Rejected.

6. Date, Time, and Location of the Examination

(1) Date and time

Computer Science and Engineering, Mechatronics, Applied Chemistry, and Advanced Material Science Courses

| Date | Type of examination | Time |
|-------------------------|---------------------|---------------------|
| July 2 (Saturday), 2016 | Oral examination | Starting at 9:30 am |

Mechanical Engineering Course

| Date | Type of examination | Time |
|-------------------------|---------------------|---------------------|
| July 2 (Saturday), 2016 | Oral examination | Starting at 1:30 pm |

(2) Location

Gathering spots are as follows. Please arrive **20 minutes prior to the examination**.

If applicants arrive at the location of the examination within 30 minutes after the scheduled start time, they will be permitted to take the examination, but even then the ending time will not be changed.

| Course | Location |
|--|---|
| Mechanical Engineering Course | Entrance of Building A-1 (Kofu East Campus) |
| Computer Science and Engineering Course Mechatronics Course Advanced Material Science Course | Entrance of Building A-2 (Kofu East Campus) |
| Applied Chemistry Course | Entrance of General Research Building (Kofu West Campus) |

General Selection Application Guideline

1. Number of Students to be Admitted

| Course or Program | Number of students to be admitted |
|--|-----------------------------------|
| Mechanical Engineering Course | 5 |
| Electrical and Electronic Engineering Course | 23 |
| Computer Science and Engineering Course | 7 |
| Mechatronics Course | 8 |
| Civil and Environmental Engineering Course | 15 |
| Applied Chemistry Course | 8 |
| Advanced Material Science Course | 15 |
| Special Educational Program on River Basin Environmental Sciences | 10 |
| Special Educational Program for Green Energy Conversion Science and Technology (Master's Course) <i>[Leading Program in Doctoral Education]</i> <i>(5-year consistent program)</i> | 15 |
| Total | 106 |

2. Application Requirements

Applicants must meet at least one of the following requirements:

- (1) Persons who have graduated or are expected to graduate from a university or college as designated by Article 83 of the School Education Law of Japan (Law #26, 1947) by March 2017 (or September 2016 for candidates desiring enrollment in October 2016).
- (2) Persons who have been awarded a Bachelor's degree according to Article 104, Paragraph 4 of the School Education Law of Japan, or who are expected to complete an advanced course of junior or technical college by March 2017 (or September 2016 for candidates desiring enrollment in October 2016) and be awarded a Bachelor's degree according to the law by March 2017 (or September 2016 for candidates desiring enrollment in October 2016).
- (3) Persons who have completed a 16-year school education program abroad or are expected to do so by March 2017 (or September 2016 for candidates desiring enrollment in October 2016).
- (4) Persons who have taken a correspondence course from an overseas educational institution while in Japan, and completed a 16-year school education program.
- (5) Persons who have completed a course or are expected to do so by March 2017 (or September 2016 for candidates desiring enrollment in October 2016) at an educational institution abroad (a graduate of which must have completed a 16-year course in the school education system), which is assessed in Japan to have university courses in that education system, and is specifically designated by the Minister of Education.
- (6) Persons who are recognized by the Minister of Education as having academic ability equal to or higher than persons who are graduates of a university or college.

- (7) Persons who have completed specialized courses specifically designated by the Minister of Education at a vocational school, whose minimum period required for graduation is 4 years or longer and which also satisfies other conditions specified by the Minister of Education, on or after the date designated by the Minister of Education, or are expected to do so by March 2017 (or September 2016 for candidates desiring enrollment in October 2016).
- (8) Persons who have spent 3 years or more at a university, or who have completed a 15-year school education program abroad, and who are recognized by our graduate school as having obtained the designated credits with excellent results.
- (9) Persons who are recognized by individual examination of entrance requirements by our graduate school as having equal to or higher academic ability than persons who are graduates of a university or college and will be at least 22 years of age at the time of enrollment.

Note:

An examination of application requirements will be conducted in advance for applicants who apply under the conditions of item (8) or (9). Please contact the Office of Admissions by May 18 (Wednesday).

3. Application Procedure

- (1) Application period: June 13 (Monday) – June 17 (Friday), 2016.
 - a. Use the “Special Application Envelope” attached to these guidelines.
 - b. Applications by post must be delivered by registered express delivery. They must arrive within the application period.
 - c. Applications will be received at the campus every day during the application period from 9:00 am to 4:30 pm.

Examination of application requirements for overseas students

An examination of application requirements will be conducted in advance for foreign applicants (overseas students). Please contact the Office of Admissions about application documents, and send them (without the examination fee) by May 16 (Monday) – May 20 (Friday).

Applicants who apply under the conditions outlined in item (1) of the application requirements listed above will be exempted from the examination of application requirements (no distinction made between government-financed, government-dispatched, and private students).

In some cases, research students (government-financed, government-dispatched, and private) and applicants who received an examination of application requirements until and including last year are exempted from the examination. Please contact the Office of Admissions in advance.

Applicants will be informed of the results of the examination by June 3 (Friday).

- (2) Mailing address: Department of Academic Affairs Support, Office of Admissions, University of Yamanashi
4-4-37 Takeda, Kofu, Yamanashi-ken 400-8510 Japan
Tel: 055-220-8046

4. Application Documents and Necessary Information

Applicants must present the following documents:

| Application document | Description |
|---|---|
| ① Examination Fee Receipt Affixation Sheet (Entrance examination fee: ¥30,000) | Please use the [Designated Payment Form] attached to this guideline to make payment at <u>the cashier's window</u> of a financial institution (bank or post office). (Payment cannot be made by ATM.) <u>Please ensure you receive an [Examination Fee Receipt] showing the bank's or post office's stamp of receipt.</u> Please affix the [Examination Fee Receipt] (original) to the [Examination Fee Receipt Affixation Sheet] before submitting your application. International applicants must send fees from an international financial institution; see the [Notes regarding payment of the examination fee]. |
| ② Entrance Application Form, Examination Admission Slip | Fill in the required information on the Entrance Application Form, attached form 1 (reverse side also). Affix a front-facing, upper body photograph without a hat to the photograph box. The photograph should be no more than three months old at the time of application. (Original photographs only; copied photographs will not be accepted.) |
| ③ Academic Transcript | Submit a certificate prepared by the President of the university from which you received your degree. *Certificates and other documents written in a foreign language other than English must be accompanied by documents translated into Japanese. |
| ④ Certificate of (Prospective) Graduation | Submit a certificate prepared by the President of the university from which you received your degree. This is not necessary if you are expected to graduate from our university. If you apply under the conditions specified in item (2) of the application requirements, present a certificate of the awarded degree, a certificate of acceptance of application for an awarded degree presented by the National Institution for Academic Degrees and University Evaluation, or a certificate of expected application for an awarded degree prepared by the President of your school. *Certificates and other documents written in a foreign language other than English must be accompanied by documents translated into Japanese. |
| ⑤ Application Slip and Address Slip | Fill in the required information on the appropriate forms attached to this guideline. |
| ⑥ Return Envelope | Clearly write the addressee on the application form and affix a ¥362 stamp. <u>This is unnecessary for applicants who submit their applications on site.</u> |
| ⑦ Resident Record | Applicants holding nationality in a foreign country, and who also register their residency in a municipality of Japan, are required to submit a Resident Record (Status of residence, Period of stay listed in the Resident Record) delivered by the local government office where they reside. Those who have not registered their residency in a municipality of Japan must submit a copy of their passport. |
| ⑧ TOEIC/TOEFL Test Score | Submit either of the following documents. If you have not yet obtained those certificates when applying, be sure to bring either of them at the time of the examination. (Except Special Educational Program for Green Energy Conversion Science and Technology) (1) If you have taken the TOEIC test, present a copy of the Official Score Certificate, or a copy of the Score Report of the TOEIC-IP test. The score of the test is acceptable only if the test was taken after July 2013. Bring the original at the time of the examination. (2) Applicants who have taken TOEFL-iBT or TOEFL-PBT can substitute this score for that of the TOEIC test. Present a copy of the Examinee Score Report. This score is acceptable only if the test was taken after July 2013. Bring the original at the time of the examination. |

Applicants must also present the following documents under the following circumstances:

| Application Document | Description |
|-------------------------|--|
| ⑨ Statement of Purpose | Those who apply for the Courses of Electrical and Electronic Engineering, Computer Science and Engineering, Mechatronics, Civil and Environmental Engineering, Applied Chemistry, Advanced Material Science, Special Educational Program on River Basin Environmental Sciences, and Special Educational Program for Green Energy Conversion Science and Technology must submit a Statement of Purpose, attached form 2. |
| ⑩ Research Project Plan | Those who apply for the Courses of Electrical and Electronic Engineering, Computer Science and Engineering, Mechatronics, Civil and Environmental Engineering, Applied Chemistry, Advanced Material Science, Special Educational Program on River Basin Environmental Sciences, and Special Educational Program for Green Energy Conversion Science and Technology must submit a Research Project Plan, attached form 3. |
| ⑪ Other | If you have changed your surname and it appears differently from what is listed on other certificates and documents, please also submit an extract of your family registry. |

[Notes regarding payment of the examination fee]

Foreign applications: Sending money from outside of Japan

The applicant must bear all the costs of the remittance fee: (1) the money transfer fee at the remitting bank outside of Japan, and (2) the receiving charge at the receiving bank, Yamanashi Chuo Bank. Make sure JPY30,000 is transferred to the account of the University of Yamanashi. If the remitting bank cannot transfer the money directly to Yamanashi Chuo Bank, remittance fee must also be paid to an intermediary bank.

| Amount to be paid by the applicant | | | |
|---|---|--|--|
| Remittance to Japan | | | |
| ① Money transfer fee [Bank outside of Japan] | Entrance examination fee, JPY30,000 | | |
| | ② Receiving charge [Yamanashi Chuo Bank] | ③ Remittance fee for intermediary bank | |

[Method of Money Transfer]

Transfer Type: Telegraphic transfer

Payment: Bank transfer

Amount: JPY30,000 + Remittance fees

※1 Please notify the cashier's window that you (the applicant) will bear all remittance fee costs.

※2 Transfer fees and remittance fees for intermediary banks vary by institution. Please confirm the required fees with the remitting bank.

[Back Account]

Name of Bank: The Yamanashi Chuo Bank, Ltd., Takedadori Branch

Address of Bank: 11-1 Takeda 2-chome, Kofu, Yamanashi, Japan

Swift Address: YCHBJPJT

Account Classification: Ordinary deposit

Account Number: 630186

Account Holder: NATIONAL UNIVERSITY CORPORATION UNIVERSITY OF YAMANASHI

Address: 4-37 Takeda 4-chome, Kofu, Yamanashi, Japan

※ After sending the money, do not fail to also submit a copy of the remittance application form with the application documents.

※ When sending money from outside of Japan, please complete all the procedures early, because it will take a long time to confirm receipt of the money.

※ If the amount received is smaller than that required, your application will not be accepted. Also, please note that refunds will not be made even if the amount received is too large.

Please be aware of the following when submitting application documents:

- (1) **Sufficient consultation with the academic supervisor of your preference should be carried out prior to applying.**
- (2) After application documents are received, neither the documents nor the examination fees may be returned.
- (3) For inquiries regarding application procedures, contact the Office of Admissions.
- (4) Once the application procedure is completed, no changes to the documents will be permitted.
- (5) Misrepresentation of any information submitted in relation to this application may result in immediate and unconditional rejection of the application.

5. Selection Method

- (1) After the application documents are received, no changes to the desired course or program or to the selection of subjects will be permitted.
- (2) Calculators are available during the written examinations for fundamental and specialized subjects.
- (3) Dictionaries or reference books are not permitted.
- (4) For information on allocation of marks, refer to page 19.

[Mechanical Engineering Course]

Successful applicants will be chosen based on an overall assessment of the results of written examinations, an oral examination, and examination of their undergraduate or equivalent university academic transcript.

- (1) Written examination (mathematics)

Linear Algebra, Calculus, Differential Equations.

- (2) Written examination (foreign language)

English in the field of mechanical engineering.

For foreign applicants (overseas students), Japanese or English will appear on the test.

- (3) Oral examination (10 minutes)

Interview regarding mechanical engineering, etc.

- (4) Examination of application documents

[Electrical and Electronic Engineering Course]

Successful applicants will be chosen based on an overall assessment of the results of an oral examination and examination of their application documents.

- (1) Oral examination (presentation: 10 minutes; interview: 10 minutes)

10-minute presentation regarding the applicant's reason for applying and research project plan.

Interview regarding the presentation, and some relevant basic academic skills and specialized knowledge.

Applicants should prepare an MS PowerPoint file for the oral presentation and bring their own PC.

- (2) Examination of application documents

[Computer Science and Engineering Course]

Successful applicants will be chosen based on an overall assessment of the results of a written examination, an oral examination, and examination of their application documents. Applicants may be exempted from the oral examination, depending on examination of their application documents (exemption will be announced in advance).

(1) Written examination (specialized subjects)

Compulsory subjects: Algorithms and Data Structures, Programming.

Elective subjects: Choose three from Discrete Mathematics, Computer Architecture and Operating Systems, Databases, Computer Networks, Software Engineering.

(2) Oral examination (presentation: 10 minutes; interview: 15 minutes)

Interview regarding the application's presentation on their statement of purpose and research project plan, which should be described logically from an engineering viewpoint.

Applicants should prepare an MS PowerPoint file for their oral presentation and bring their own PC.

(3) Examination of application documents

[Mechatronics Course]

Successful applicants will be chosen based on the total assessment of the results of a written examination, an oral examination, and the examination of their application documents. The applicants may be shortened from the oral examination, depending on the examination of application documents.

(1) Written examination (mathematics)

Linear Algebra, Calculus, Differential Equations.

(2) Written examination (specialized subjects)

Choose one from the following: Mechanics of Materials/Mechanical Dynamics, Programming, Digital Circuits, and Control Engineering.

(3) Oral examination (interview: 15 minutes)

Interview regarding the applicant's purpose and research plans, and some related matters.

(4) An examination of application documents

[Civil and Environmental Engineering Course]

Successful applicants will be chosen based on an overall assessment of the results of an oral examination and examination of their application documents.

(1) Oral examination (presentation: 10 minutes; interview: 10 minutes)

Presentation on the applicant's statement of purpose and research project plan.

Interview regarding the presentation and specialized knowledge.

The applicant should prepare an MS PowerPoint file for the oral presentation. If using presentation software, the applicant should also bring a PC.

(2) Examination of application documents

[Applied Chemistry Course]

Successful applicants will be chosen based on an overall assessment of the results of an oral examination and examination of their application documents.

(1) Oral examination (presentation: 5 minutes; interview: 10 minutes)

Presentation on the applicant's statement of purpose and research project plan.

Interview regarding the presentation and specialized knowledge.

The applicant should prepare transparencies (for a projector) or an MS PowerPoint file for the oral presentation. If using presentation software, the applicant should also bring a PC.

(2) Examination of application documents

[Advanced Material Science Course]

Successful applicants will be chosen based on an overall assessment of the results of a written examination, an oral examination, and examination of their application documents.

(1) Written examination (mathematics)

Linear algebra, Differential & Integral Calculus, and related issues.

(2) Oral examination (presentation: 10 minutes; interview: 15 minutes)

All applicants are required to make presentation using a slide-presentation software such as MS PowerPoint or its alternative software. It is also required to bring their own laptop computer equipped with an analog RGB D-sub 15Pin port. Please bring backup files saved on USB storage devices too.

The presentation must include the issues mentioned below: (1) The reason why you chose this graduate school and this course. (2) Future research plan. (Both 1 and 2 must be included.)

We will interview the issue related to the applicant's presentation and it will include physical and/or chemical fundamental issues.

(3) Examination of application documents

[Special Educational Program on River Basin Environmental Sciences]

Successful applicants will be chosen based on an overall assessment of the results of an oral examination and examination of their application documents.

(1) Oral examination (presentation: 10 minutes; interview: 10 minutes)

Presentation on the applicant's statement of purpose and research project plan.

Interview regarding the presentation and specialized knowledge.

The applicant should prepare an MS PowerPoint file for the oral presentation. If using presentation software, the applicant should also bring a PC.

(2) Examination of application documents

[Special Educational Program for Green Energy Conversion Science and Technology]

Successful applicants will be chosen based on an overall assessment of the results of written examinations (fundamental and specialized subjects and foreign language), an oral examination (interview regarding the research project plan, conducted in either English or Japanese), and examination of their undergraduate or equivalent university academic transcript.

(1) Written examination (fundamental and specialized subjects)

Choose one from subject groups I – III (indicate choice when applying).

Subject group I: Chemistry A, Chemistry B

Subject group II: Physics, Materials Science for Mechanics

Subject group III: Physics, Electromagnetics/Electronic Properties

Bring a scientific calculator.

Contents of examination:

1. Chemistry A: Thermodynamics, Phase Equilibria, Chemical Kinetics, Electronic Structure of Atoms and Molecules, etc.
2. Chemistry B: Spectroscopy and Diffraction, Crystal Structure, Electronic Structure and Properties of Inorganic Materials, etc.
3. Physics: Force and Motion (including Basic Differential Equations)
4. Materials Science for Mechanics: Crystal Structure and Defects, Phase Diagrams and Structure, Deformation and Processing of Materials, etc.
5. Electromagnetics/Electronic Properties: Static Electric and Magnetic Fields, Electromagnetic Induction, Energy Bands, Motion of Carriers, etc.

(2) Written examination (foreign language)

English in the specialized field.

For foreign applicants (overseas students), Japanese or English will appear on the test.

(3) Oral examination (presentation: 10 minutes; interview: 10 minutes)

Presentation based on the applicant's statement of purpose and research project plan.

Interview regarding the presentation.

The applicant should prepare transparencies (for a projector) or an MS PowerPoint file for the oral presentation regarding the research project plan. If using presentation software, the applicant should bring a PC or electronic data file.

(4) Examination of application documents

[Allocation of Marks]

| Course or Program | Written Examination | | Oral Examination | Application Documents | Total |
|--|---|---------------------------|-----------------------|---|-------|
| Mechanical Engineering Course | (Mathmatics) 100 | (Foreign Language) 100 | Accepted/ Rejected | (Academic Transcript) Accepted/ Rejected* | 200 |
| Advanced Material Science Course | (Mathmatics) 100 | | 100 | (Academic Transcript) Accepted/ Rejected* | 200 |
| Special Educational Program for Green Energy Conversion Science and Technology | (Fundamental and Specialized Subjects) 200 | (Foreign Language) 100 | 100 | (Academic Transcript) Accepted/ Rejected | 400 |

*Including TOEIC/TOEFL Test Score.

| Course | Oral Examination | Application Documents | Total |
|--|------------------|-----------------------|-------|
| Electrical and Electronic Engineering Course | 15 | Accepted/Rejected* | 15 |
| Applied Chemistry Course | 100 | Accepted/Rejected* | 100 |

*Including TOEIC/TOEFL Test Score.

| Course or Prgram | Written Examination | | Oral Examination | Application Documents | TOEIC or TOEFL | Total |
|---|------------------------------|-------------------------------|-----------------------|--|----------------|-------|
| Mechatronics Course | (Mathmatics) 100 | (Specialized Subjects) 100 | Accepted/ Rejected | (Academic Transcript) Accepted/Rejected | 50 | 250 |
| Computer Science and Engineering Course | (Compulsory Subjects) 140 | (Elective Subjects) 210 | Accepted/ Rejected | (Academic Transcript) Accepted/Rejected | 100 | 450 |
| Civil and Environmental Engineering Course | / | | 60 | 30 | 10 | 100 |
| Special Educational Program on River Basin Environmental Sciences | / | | 60 | 30 | 10 | 100 |

6. Date, Time, and Location of the Examination

(1) Date and time

Mechanical Engineering Course

| | | |
|-------------------------|---|---------------------|
| Date | 9:30 to 11:00 am | Starting at 1:30 pm |
| July 2 (Saturday), 2016 | Written examination (mathematics and foreign language) | Oral examination |

Electrical and Electronic Engineering Course

| | |
|-------------------------|---------------------|
| Date | Starting at 9:30 am |
| July 2 (Saturday), 2016 | Oral examination |

Computer Science and Engineering Course

| | | |
|-------------------------|---|---------------------|
| Date | 9:30 am to 12:00 pm | Starting at 1:30 pm |
| July 2 (Saturday), 2016 | Written examination (specialized subjects) | Oral examination |

Mechatronics Course

| | | |
|-------------------------|---|---------------------|
| Date | 9:30 to 11:30 am | Starting at 1:30 pm |
| July 2 (Saturday), 2016 | Written examination (mathematics and specialized subjects) | Oral examination |

Civil and Environmental Engineering Course

| | |
|-------------------------|---------------------|
| Date | Starting at 9:30 am |
| July 2 (Saturday), 2016 | Oral examination |

Applied Chemistry Course

| | |
|-------------------------|---------------------|
| Date | Starting at 9:30 am |
| July 2 (Saturday), 2016 | Oral examination |

Advanced Material Science Course

| | | |
|-------------------------|--------------------------------------|---------------------|
| Date | 9:30 to 11:30 am | Starting at 1:30 pm |
| July 2 (Saturday), 2016 | Written examination (mathematics) | Oral examination |

Special Educational Program on River Basin Environmental Sciences

| | |
|-------------------------|---------------------|
| Date | Starting at 9:30 am |
| July 2 (Saturday), 2016 | Oral examination |

Special Educational Program for Green Energy Conversion Science and Technology

| | | | |
|-------------------------|---|---|---------------------|
| Date | 9:30 to 11:30 am | 11:40 am to 12:30 pm | Starting at 1:30 pm |
| July 2 (Saturday), 2016 | Written examination (fundamental and specialized subjects) | Written examination (foreign language) | Oral examination |

(2) Examination location

Gathering spots are as follows (details indicated separately by major or program). Please arrive **20 minutes prior to the examination**.

If applicants arrive at the location of the examination within 30 minutes after the scheduled start time, they will be permitted to take the examination, but even then the ending time will not be changed.

| Course or Program | Location |
|--|--|
| Mechanical Engineering Course | Room A1-11, first floor of Building A-1 (Kofu East Campus) |
| Electrical and Electronic Engineering Course Civil and Environmental Engineering Course | Meeting rooms of each major *Come to the entrance of Building A-2 in Kofu East Campus |
| Computer Science and Engineering Course | Room A2-12, first floor of Building A-2 (Kofu East Campus) |
| Mechatronics Course | Room T1-11, first floor of Building T-1 (Kofu East Campus) |
| Applied Chemistry Course | General Research Building (Kofu West Campus) *Come to the entrance of the General Research Building |
| Advanced Material Science Course | Room T1-12, first floor of Building T-1 (Kofu East Campus) |
| Special Educational Program on River Basin Environmental Sciences | Room B1-336 *Come to the entrance of Building B-3 in Kofu East Campus |
| Special Educational Program for Green Energy Conversion Science and Technology | Room B2-11, Building B-2 (Kofu-East Campus) |

7. Other

Previous years' examination questions are published on our website's home page (<http://www.yamanashi.ac.jp>).

General Information

1. Announcement of Successful Applicants

Announcement of successful applicants will be made on the bulletin board at the front entrance of Building A-2 around 5:00 pm on July 15 (Friday), 2016. A letter of acceptance will also be sent to the successful applicants.

Information regarding results will not be given out over the telephone.

The examinee numbers of successful applicants will additionally be published on our website's home page (<http://www.yamanashi.ac.jp/en/>).

2. Enrollment Period

Applicants applying in the first semester of 2017 may select a period of enrollment. When applying, select either the October 2016 (Second Semester) or April 2017 (First Semester) enrollment period by circling your choice on the attached application form. Note that changes cannot be made to your selection once the application has been received by our office.

If you have any questions about enrollment in October 2016 (Second Semester), please contact the Office of Admissions.

3. Entrance Procedures

(1) Period for enrollment

| Enrollment Period | Enrollment Applications |
|-------------------------|--|
| October 2016 Enrollment | September 16 (Friday), 2016 |
| April 2017 Enrollment | March 8 (Wednesday) – March 15 (Wednesday), 2017 |

Notes:

- ① If you fail to complete entrance procedures by the designated date, you will be assumed to have decided against entering our university, and your enrollment will be cancelled.
- ② Your examination admission slip must be presented at the time of entrance procedures. Please keep your examination admission slip after the examination.

(2) Payment for enrollment

The enrollment fee is ¥282,000 (tentative).

- ① When transferring your entrance fee to the bank account, documentation verifying the identity of the person making the payment (for example, a sponsor making the payment as proxy for the person named) must be presented to the bank clerk.
- ② The enrollment fee stated above may be revised at the time of enrollment. Received enrollment fees will not be returned under any circumstances.

(3) Applicants will be notified separately of the documents necessary for entrance procedures.

4. Tuition

Tuition for the Second period for those students enrolling in October 2016 is ¥267,900.

Tuition for the First period for those students enrolling in April 2017 is ¥267,900 (totaling ¥535,800).

- Tuition fees listed are tentative. If revisions to this fee are made at the time of enrollment or during classes, the new fee will be applicable after it is set.
- Tuition is typically withdrawn automatically from the student's account. Information will be made available later with regard to procedures.

5. Other Expenditures

Student Research Accident Insurance expenditures are required.

6. Extended Credit System

The Division of Engineering master's program offers an extended credit system.

This system enables students whose hours of study are restricted by employment to obtain credits for a planned educational program over a fixed period (maximum of 4 years), exceeding the standard training year limit (2 years) to complete the program. Because the units required for credit are the same as those required by the 2-year program, the yearly course load required is dramatically reduced.

For details on this system, contact the Office for the Faculty of Engineering Education Group (Graduate School): Tel: 055-220-8730.

Due dates for application to this system are as follows:

- (1) Enrollment in October (Second Semester): Last day of August
- (2) Enrollment in April (First Semester): Last day of February

7. Other

- (1) Personal information in addition to your name and address, obtained through your application, will be used in (1) Selecting applicants (application process & selection), (2) Announcement of successful applicants, (3) Enrollment, and (4) Statistical investigation. Testing records used in selection of successful applicants will be used to create study materials for selection methods in the future.

Enrollees' personal information, obtained through applications, will be used in (1) Educational activities (registration, student guidance, etc.), (2) Student support (health management, employment support, exemption from tuition/application for student loans), and (3) Tuition collection.

- (2) Applicants wishing to obtain a scholarship should contact the Academic Affairs Support Department, Office of Student Support (Tel: 055-220-8053), for information after announcement of successful applicants.

3 . Second Call for Applications

General Selection Application Guideline

1. Number of Students to be Admitted

| Course or Program | Number of students to be admitted |
|--|-----------------------------------|
| Mechanical Engineering Course | A few |
| Electrical and Electronic Engineering Course | A few |
| Computer Science and Engineering Course | A few |
| Mechatronics Course | A few |
| Civil and Environmental Engineering Course | A few |
| Applied Chemistry Course | A few |
| Advanced Material Science Course | A few |
| Special Educational Program on River Basin Environmental Sciences | A few |
| Special Educational Program for Green Energy Conversion Science and Technology (Master's Course) <i>[Leading Program in Doctoral Education]</i> <i>(5-year consistent program)</i> | A few |

2. Application Requirements

Applicants must meet at least one of the following requirements:

- (1) Persons who have graduated or are expected to graduate from a university or college as designated by Article 83 of the School Education Law of Japan (Law #26, 1947) by March 2017 (or September 2017 for persons desiring enrollment in October 2017).
- (2) Persons who have been awarded a Bachelor's degree according to Article 104, Paragraph 4 of the School Education Law of Japan, or who are expected to complete an advanced course of junior or technical college by March 2017 (or September 2017 for persons desiring enrollment in October 2017) and be awarded a Bachelor's degree according to the law by March 2017 (or September 2017 for persons desiring enrollment in October 2017).
- (3) Persons who have completed a 16-year school education program abroad or are expected to do so by March 2017 (or September 2017 for persons desiring enrollment in October 2017).
- (4) Persons who have taken a correspondence course from an overseas educational institution while in Japan, and completed a 16-year school education program.
- (5) Persons who have completed a course or are expected to do so by March 2017 (or September 2017 for persons desiring enrollment in October 2017) at an educational institution abroad (a graduate of which must have completed a 16-year course in the school education system), which is assessed in Japan to have university courses in that education system, and is specifically designated by the Minister of Education.
- (6) Persons who are recognized by the Minister of Education as having academic ability equal to or higher than persons who are graduates of a university or college.
- (7) Persons who have completed specialized courses specifically designated by the Minister of Education at a vocational school, whose minimum period required for graduation is 4 years or longer and which also satisfies other conditions specified by the Minister of Education, on or after the date designated by the Minister of Education, or are expected to do so by March 2017 (or September 2017 for persons desiring enrollment in October 2017).

- (8) Persons who have spent 3 years or more at a university, or who have completed a 15-year school education program abroad, and who are recognized by our graduate school as having obtained the designated credits with excellent results.
- (9) Persons who are recognized by individual examination of entrance requirements by our graduate school as having equal to or higher academic ability than persons who are graduates of a university or college and will be at least 22 years of age at the time of enrollment.

Note:

An examination of application requirements will be conducted in advance for applicants who apply under the conditions of item (8) or (9). Please contact the Office of Admissions by October 12(Wednesday).

3. Application Procedure

- (1) Application period: November 7(Monday) – November 11(Friday), 2016.
- Use the “Special Application Envelope” attached to these guidelines.
 - Applications by post must be delivered by registered express delivery. They must arrive within the application period.
 - Applications will be received at the campus every day during the application period from 9:00 am to 4:30 pm.

Examination of application requirements for overseas students

An examination of application requirements will be conducted in advance for foreign applicants (overseas students). Please contact the Office of Admissions about application documents, and send them (without the examination fee) by October 7 (Friday) – October 14 (Friday).

Applicants who apply under the conditions outlined in item (1) of the application requirements listed above will be exempted from the examination of application requirements (no distinction made between government-financed, government-dispatched, and private students).

In some cases, research students (government-financed, government-dispatched, and private) and applicants who received an examination of application requirements until and including last year are exempted from the examination. Please contact the Office of Admissions in advance.

Applicants will be informed of results of the examination by October 28(Friday) .

- (2) Mailing address: Department of Academic Affairs Support, Office of Admissions, University of Yamanashi
4-4-37 Takeda, Kofu, Yamanashi-ken 400-8510 Japan
Tel: 055-220-8046

4. Application Documents and Necessary Information

Applicants must present the following documents:

| Application document | Description |
|---|---|
| ① Examination Fee Receipt Affixation Sheet (Entrance examination fee: ¥30,000) | Please use the [Designated Payment Form] attached to this guideline to make payment <u>at the cashier’s window</u> of a financial institution (bank or post office). (Payment cannot be made by ATM.) <u>Please ensure you receive an [Examination Fee Receipt] showing the bank’s or post office’s stamp of receipt.</u> Please affix the [Examination Fee Receipt] (original) to the [Examination Fee Receipt Affixation Sheet] before submitting your application. International applicants must send fees from an international financial institution; see the [Notes regarding payment of the examination fee]. |
| ② Entrance Application Form, Examination Admission Slip | Fill in the required information on the Entrance Application Form, attached form 1 (reverse side also). Affix a front-facing, upper body photograph without a hat to the photograph box. The photograph should be no more than three months old at the time of application. (Original photographs only; copied photographs will not be accepted.) |

| | |
|---|---|
| ③ Academic Transcript | Submit a certificate prepared by the President of the university from which you received your degree. *Certificates and other documents written in a foreign language other than English must be accompanied by documents translated into Japanese. |
| ④ Certificate of (Prospective) Graduation | Submit a certificate prepared by the President of the university from which you received your degree. This is not necessary if you are expected to graduate from our university. If you apply under the conditions specified in item (2) of the application requirements, present a certificate of the awarded degree, a certificate of acceptance of application for an awarded degree presented by the National Institution for Academic Degrees and University Evaluation, or a certificate of expected application for an awarded degree prepared by the President of your school. *Certificates and other documents written in a foreign language other than English must be accompanied by documents translated into Japanese. |
| ⑤ Application Slip and Address Slip | Fill in the required information on the appropriate forms attached to this guideline. |
| ⑥ Return Envelope | Clearly write the addressee on the application form and affix a ¥362 stamp. <u>This is unnecessary for applicants who submit their applications on site.</u> |
| ⑦ Resident Record | Applicants holding nationality in a foreign country, and who also register their residency in a municipality of Japan, are required to submit a Residents Record (Status of residence, Period of stay listed in the Resident Record) delivered by the local government office where they reside. Those who have not registered their residency in a municipality of Japan must submit a copy of their passport. |
| ⑧ TOEIC/TOEFL Test Score | Submit either of the following documents. If you have not yet obtained those certificates when applying, be sure to bring either of them at the time of the examination. (Except Special Educational Program for Green Energy Conversion Science and Technology) (1) If you have taken the TOEIC test, present a copy of the Official Score Certificate, or a copy of the Score Report of the TOEIC-IP test. The score of the test is acceptable only if the test was taken after November 2013. Bring the original at the time of the examination. (2) Applicants who have taken TOEFL-iBT or TOEFL-PBT can substitute this score for that of the TOEIC test. Present a copy of the Examinee Score Report. This score is acceptable only if the test was taken after November 2013. Bring the original at the time of the examination. |

Applicants must also present the following documents under the following circumstances:

| Application Document | Description |
|-------------------------|--|
| ⑨ Statement of Purpose | Those who apply for the Courses of Electrical and Electronic Engineering, Computer Science and Engineering, Mechatronics, Civil and Environmental Engineering, Applied Chemistry, Advanced Material Science, Special Educational Program on River Basin Environmental Sciences, and Special Educational Program for Green Energy Conversion Science and Technology must submit a Statement of Purpose, attached form 2. |
| ⑩ Research Project Plan | Those who apply for the Courses of Electrical and Electronic Engineering, Computer Science and Engineering, Mechatronics, Civil and Environmental Engineering, Applied Chemistry, Advanced Material Science, Special Educational Program on River Basin Environmental Sciences, and Special Educational Program for Green Energy Conversion Science and Technology must submit a Research Project Plan, attached form 3. |
| ⑪ Other | If you have changed your surname and it appears differently from what is listed on other certificates and documents, please also submit an extract of your family registry. |

[Notes regarding payment of the examination fee]

Foreign applications: Sending money from outside of Japan

The applicant must bear all the costs of the remittance fee: (1) the money transfer fee at the remitting bank outside of Japan, and (2) the receiving charge at the receiving bank, Yamanashi Chuo Bank. Make sure JPY30,000 is transferred to the account of the University of Yamanashi. If the remitting bank cannot transfer the money directly to Yamanashi Chuo Bank, remittance fee must also be paid to an intermediary bank.

| Amount to be paid by the applicant | | | |
|---|--|---|--|
| Remittance to Japan | | | |
| ① Money transfer fee [Bank outside of Japan] | Entrance examination fee, JPY30,000 | ② Receiving charge [Yamanashi Chuo Bank] | ③ Remittance fee for intermediary bank |

[Method of Money Transfer]

Transfer Type: Telegraphic transfer

Payment: Bank transfer

Amount: JPY30,000 + Remittance fees

- ※1 Please notify the cashier's window that you (the applicant) will bear all remittance fee costs.
- ※2 Transfer fees and remittance fees for intermediary banks vary by institution. Please confirm the required fees with the remitting bank.

[Back Account]

Name of Bank: The Yamanashi Chuo Bank, Ltd., Takedadori Branch

Address of Bank: 11-1 Takeda 2-chome, Kofu, Yamanashi, Japan

Swift Address: YCHBJPJT

Account Classification: Ordinary deposit

Account Number: 630186

Account Holder: NATIONAL UNIVERSITY CORPORATION UNIVERSITY OF YAMANASHI

Address: 4-37 Takeda 4-chome, Kofu, Yamanashi, Japan

- ※ After sending the money, do not fail to also submit a copy of the remittance application form with the application documents.
- ※ When sending money from outside of Japan, please complete all the procedures early, because it will take a long time to confirm receipt of the money.
- ※ If the amount received is smaller than that required, your application will not be accepted. Also, please note that refunds will not be made even if the amount received is too large.

Please be aware of the following when submitting application documents:

- (1) **Sufficient consultation with the academic supervisor of your preference should be carried out prior to applying.**
- (2) After application documents are received, neither the documents nor the examination fees may be returned.
- (3) For inquiries regarding application procedures, contact the Office of Admissions.
- (4) Once the application procedure is completed, no changes to the documents will be permitted.
- (5) Misrepresentation of any information submitted in relation to this application may result in immediate and unconditional rejection of the application.

5. Selection Method

- (1) After the application documents are received, no changes to the desired course or program or to the selection of subjects will be permitted.
- (2) Calculators are available during the written examinations for fundamental and specialized subjects.
- (3) Dictionaries or reference books are not permitted.
- (4) For information on allocation of marks, refer to page 33.

[Mechanical Engineering Course]

Successful applicants will be chosen based on an overall assessment of the results of written examinations, an oral examination, and examination of their undergraduate or equivalent university academic transcript.

- (1) Written examination (mathematics)

Linear Algebra, Calculus, Differential Equations.

- (2) Written examination (foreign language)

English in the field of mechanical engineering.

For foreign applicants (overseas students), Japanese or English will appear on the test.

- (3) Oral examination (10 minutes)

Interview regarding mechanical engineering, etc.

- (4) Examination of application documents

[Electrical and Electronic Engineering Course]

Successful applicants will be chosen based on an overall assessment of the results of an oral examination and examination of their application documents.

- (1) Oral examination (presentation: 10 minutes; interview: 10 minutes)

10-minute presentation regarding the applicant's reason for applying and research project plan.

Interview regarding the presentation, and some relevant basic academic skills and specialized knowledge.

Applicants should prepare an MS PowerPoint file for the oral presentation and bring their own PC.

- (2) Examination of application documents

[Computer Science and Engineering Course]

Successful applicants will be chosen based on an overall assessment of the results of a written examination, an oral examination, and examination of their application documents. Applicants may be exempted from the oral examination, depending on examination of their application documents (exemption will be announced in advance).

- (1) Written examination (specialized subjects)

Compulsory subjects: Algorithms and Data Structures, Programming.

Elective subjects: Choose three from Discrete Mathematics, Computer Architecture and Operating Systems, Databases, Computer Networks, Software Engineering.

- (2) Oral examination (presentation: 10 minutes; interview: 15 minutes)

Interview regarding the application's presentation on their statement of purpose and research project plan, which should be described logically from an engineering viewpoint.

Applicants should prepare an MS PowerPoint file for their oral presentation and bring their own PC.

- (3) Examination of application documents

[Mechatronics Course]

Successful applicants will be chosen based on the total assessment of the results of a written examination, an oral examination, and the examination of their application documents. The applicants may be shortened from the oral examination, depending on the examination of application documents.

(1) Written examination (mathematics)

Linear Algebra, Calculus, Differential Equations.

(2) Written examination (specialized subjects)

Choose one from the following: Mechanics of Materials/Mechanical Dynamics, Programming, Digital Circuits, and Control Engineering.

(3) Oral examination (interview: 15 minutes)

Interview regarding the applicant's purpose and research plans, and some related matters.

(4) An examination of application documents

[Civil and Environmental Engineering Course]

Successful applicants will be chosen based on an overall assessment of the results of an oral examination and examination of their application documents.

(1) Oral examination (presentation: 10 minutes; interview: 10 minutes)

Presentation on the applicant's statement of purpose and research project plan.

Interview regarding the presentation and specialized knowledge.

The applicant should prepare an MS PowerPoint file for the oral presentation. If using presentation software, the applicant should also bring a PC.

(2) Examination of application documents

[Applied Chemistry Course]

Successful applicants will be chosen based on an overall assessment of the results of an oral examination and examination of their application documents.

(1) Oral examination (presentation: 5 minutes; interview: 10 minutes)

Presentation on the applicant's statement of purpose and research project plan.

Interview regarding the presentation and specialized knowledge.

The applicant should prepare transparencies (for a projector) or an MS PowerPoint file for the oral presentation. If using presentation software, the applicant should also bring a PC.

(2) Examination of application documents

[Advanced Material Science Course]

Successful applicants will be chosen based on an overall assessment of the results of a written examination, an oral examination, and examination of their application documents.

(1) Written examination (mathematics)

Linear algebra, Differential & Integral Calculus, and related issues.

(2) Oral examination (presentation: 10 minutes; interview: 15 minutes)

All applicants are required to make presentation using a slide-presentation software such as MS PowerPoint or its alternative software. It is also required to bring their own laptop computer equipped with an analog RGB D-sub 15Pin port. Please bring backup files saved on USB storage devices too.
The presentation must include the issues mentioned below: (1) The reason why you chose this graduate school and this course. (2) Future research plan. (Both 1 and 2 must be included.)
We will interview the issue related to the applicant's presentation and it will include physical and/or chemical fundamental issues.

(3) Examination of application documents

[Special Educational Program on River Basin Environmental Sciences]

Successful applicants will be chosen based on an overall assessment of the results of an oral examination and examination of their application documents.

(1) Oral examination (presentation: 10 minutes; interview: 10 minutes)

Presentation on the applicant's statement of purpose and research project plan.
Interview regarding the presentation and specialized knowledge.
The applicant should prepare an MS PowerPoint file for the oral presentation. If using presentation software, the applicant should also bring a PC.

(2) Examination of application documents

[Special Educational Program for Green Energy Conversion Science and Technology]

Successful applicants will be chosen based on an overall assessment of the results of written examinations (fundamental and specialized subjects and foreign language), an oral examination (interview regarding the research project plan, conducted in either English or Japanese), and examination of their undergraduate or equivalent university academic transcript.

(1) Written examination (fundamental and specialized subjects)

Choose one from subject groups I – III (indicate choice when applying).

Subject group I: Chemistry A, Chemistry B

Subject group II: Physics, Materials Science for Mechanics

Subject group III: Physics, Electromagnetics/Electronic Properties

Bring a scientific calculator.

Contents of examination:

1. Chemistry A: Thermodynamics, Phase Equilibria, Chemical Kinetics, Electronic Structure of Atoms and Molecules, etc.
2. Chemistry B: Spectroscopy and Diffraction, Crystal Structure, Electronic Structure and Properties of Inorganic Materials, etc.
3. Physics: Force and Motion (including Basic Differential Equations)
4. Materials Science for Mechanics: Crystal Structure and Defects, Phase Diagrams and Structure, Deformation and Processing of Materials, etc.
5. Electromagnetics/Electronic Properties: Static Electric and Magnetic Fields, Electromagnetic Induction, Energy Bands, Motion of Carriers, etc.

(2) Written examination (foreign language)

English in the specialized field.

For foreign applicants (overseas students), Japanese or English will appear on the test.

(3) Oral examination (presentation: 10 minutes; interview: 10 minutes)

Presentation based on the applicant's statement of purpose and research project plan.

Interview regarding the presentation.

The applicant should prepare transparencies (for a projector) or an MS PowerPoint file for the oral presentation regarding the research project plan. If using presentation software, the applicant should bring a PC or electronic data file.

(4) Examination of application documents

[Allocation of Marks]

| Course or Program | Written Examination | | Oral Examination | Application Documents | Total |
|--|---|---------------------------|-----------------------|---|-------|
| Mechanical Engineering Course | (Mathematics) 100 | (Foreign Language) 100 | Accepted/ Rejected | (Academic Transcript) Accepted/ Rejected* | 200 |
| Advanced Material Science Course | (Mathematics) 100 | | 100 | (Academic Transcript) Accepted/ Rejected* | 200 |
| Special Educational Program for Green Energy Conversion Science and Technology | (Fundamental and Specialized Subjects) 200 | (Foreign Language) 100 | 100 | (Academic Transcript) Accepted/ Rejected | 400 |

*Including TOEIC/TOEFL Test Score.

| Course | Oral Examination | Application Documents | Total |
|--|------------------|-----------------------|-------|
| Electrical and Electronic Engineering Course | 15 | Accepted/Rejected* | 15 |
| Applied Chemistry Course | 100 | Accepted/Rejected* | 100 |

*Including TOEIC/TOEFL Test Score.

| Course or Program | Written Examination | | Oral Examination | Application Documents | TOEIC or TOEFL | Total |
|---|------------------------------|-------------------------------|-----------------------|--|----------------|-------|
| Mechatronics Course | (Mathematics) 100 | (Specialized Subjects) 100 | Accepted/ Rejected | (Academic Transcript) Accepted/Rejected | 50 | 250 |
| Computer Science and Engineering Course | (Compulsory Subjects) 140 | (Elective Subjects) 210 | Accepted/ Rejected | (Academic Transcript) Accepted/Rejected | 100 | 450 |
| Civil and Environmental Engineering Course | / | | 60 | 30 | 10 | 100 |
| Special Educational Program on River Basin Environmental Sciences | / | | 60 | 30 | 10 | 100 |

6. Date, Time, and Location of the Examination

(1) Date and time

Mechanical Engineering Course

| | | |
|-----------------------------|---|---------------------|
| Date | 9:30 to 11:00 am | Starting at 1:30 pm |
| December 3 (Saturday), 2016 | Written examination (mathematics and foreign language) | Oral examination |

Electrical and Electronic Engineering Course

| | |
|-----------------------------|---------------------|
| Date | Starting at 9:30 am |
| December 3 (Saturday), 2016 | Oral examination |

Computer Science and Engineering Course

| | | |
|-----------------------------|---|---------------------|
| Date | 9:30 am to 12:00 pm | Starting at 1:30 pm |
| December 3 (Saturday), 2016 | Written examination (specialized subjects) | Oral examination |

Mechatronics Course

| | | |
|-----------------------------|---|---------------------|
| Date | 9:30 to 11:30 am | Starting at 1:30 pm |
| December 3 (Saturday), 2016 | Written examination (mathematics and specialized subjects) | Oral examination |

Civil and Environmental Engineering Course

| | |
|-----------------------------|---------------------|
| Date | Starting at 9:30 am |
| December 3 (Saturday), 2016 | Oral examination |

Applied Chemistry Course

| | |
|-----------------------------|---------------------|
| Date | Starting at 9:30 am |
| December 3 (Saturday), 2016 | Oral examination |

Advanced Material Science Course

| | | |
|-----------------------------|--------------------------------------|---------------------|
| Date | 9:30 to 11:30 am | Starting at 1:30 pm |
| December 3 (Saturday), 2016 | Written examination (mathematics) | Oral examination |

Special Educational Program on River Basin Environmental Sciences

| | |
|-----------------------------|---------------------|
| Date | Starting at 9:30 am |
| December 3 (Saturday), 2016 | Oral examination |

Special Educational Program for Green Energy Conversion Science and Technology

| | | | |
|-----------------------------|---|---|---------------------|
| Date | 9:30 to 11:30 am | 11:40 am to 12:30 pm | Starting at 1:30 pm |
| December 3 (Saturday), 2016 | Written examination (fundamental and specialized subjects) | Written examination (foreign language) | Oral examination |

(2) Examination location

Gathering spots are as follows (details indicated separately by major or program). Please arrive **20 minutes prior to the examination**.

If applicants arrive at the location of the examination within 30 minutes after the scheduled start time, they will be permitted to take the examination, but even then the ending time will not be changed.

| Course or Program | Location |
|--|--|
| Mechanical Engineering Course | Room A1-11, first floor of Building A-1 (Kofu East Campus) |
| Electrical and Electronic Engineering Course Civil and Environmental Engineering Course | Meeting rooms of each major *Come to the entrance of Building A-2 in Kofu East Campus |
| Computer Science and Engineering Course | Room A2-12, first floor of Building A-2 (Kofu East Campus) |
| Mechatronics Course | Room T1-11, first floor of Building T-1 (Kofu East Campus) |
| Applied Chemistry Course | General Research Building (Kofu West Campus) *Come to the entrance of the General Research Building |
| Advanced Material Science Course | Room T1-12, first floor of Building T-1 (Kofu East Campus) |
| Special Educational Program on River Basin Environmental Sciences | Room B1-336 *Come to the entrance of Building B-3 in Kofu East Campus |
| Special Educational Program for Green Energy Conversion Science and Technology | Room B2-11, Building B-2 (Kofu-East Campus) |

7. Other

Previous years' examination questions are published on our website's home page (<http://www.yamanashi.ac.jp>).

General Information

1. Announcement of Successful Applicants

Announcement of successful applicants will be made on the bulletin board at the front entrance of Building A-2 around 5:00 pm on December 16 (Friday), 2016. A letter of acceptance will also be sent to the successful applicants. **Information regarding results will not be given out over the telephone.**

The examinee numbers of successful applicants will additionally be published on our website's home page (<http://www.yamanashi.ac.jp/en/>).

2. Enrollment Period

Applicants applying in the second semester of 2017 may select a period of enrollment. When applying, select either the April 2017 (First Semester) or October 2017 (Second Semester) enrollment period by circling your choice on the attached application form. Note that changes cannot be made to your selection once the application has been received by our office.

If you have any questions about enrollment in October 2017 (Second Semester), please contact the Office of Admissions.

3. Entrance Procedures

(1) Scheduled enrollment period

| Enrollment Period | Enrollment Applications |
|-------------------|--|
| April 2017 | March 8 (Wednesday) — March 15 (Wednesday), 2017 |
| October 2017 | September 15 (Friday), 2017 |

Notes:

- ① If you fail to complete entrance procedures by the designated date, you will be assumed to have decided against entering our university, and your enrollment will be cancelled.
- ② Your examination admission slip must be presented at the time of entrance procedures. Please keep your examination admission slip after the examination.

(2) Payment for enrollment

The enrollment fee is ¥282,000 (tentative).

- ① When transferring your entrance fee to the bank account, documentation verifying the identity of the person making the payment (for example, a sponsor making the payment as proxy for the person named) must be presented to the bank clerk.
- ② The enrollment fee stated above may be revised at the time of enrollment. Received enrollment fees will not be returned under any circumstances.

(3) Applicants will be notified separately of the documents necessary for entrance procedures.

4. Tuition

Tuition for the First Semester period (students enrolling in April 2017) is ¥267,900 (annual total: ¥535,800).

Tuition for the Second Semester period students enrolling or continuing in October 2017 is ¥267,900.

- Tuition fees listed are tentative. If revisions to this fee are made at the time of enrollment or during classes, the new fee will be applicable after it is set.
- Tuition is typically withdrawn automatically from the student's account. Information will be made available later with regard to procedures.

5. Other Expenditures

Student Research Accident Insurance expenditures are required.

6. Extended Credit System

The Division of Engineering master's program offers an extended credit system.

This system enables students whose hours of study are restricted by employment to obtain credits for a planned educational program over a fixed period (maximum of 4 years), exceeding the standard training year limit (2 years) to complete the program. Because the units required for credit are the same as those required by the 2-year program, the yearly course load required is dramatically reduced.

For details on this system, contact the Office for the Faculty of Engineering Education Group (Graduate School): Tel: 055-220-8730.

Due dates for application to this system are as follows:

- (1) Enrollment in April (First Semester): Last day of February
- (2) Enrollment in October (Second Semester): Last day of August

7. Other

- (1) Personal information in addition to your name and address, obtained through your application, will be used in (1) Selecting applicants (application process & selection), (2) Announcement of successful applicants, (3) Enrollment, and (4) Statistical investigation. Testing records used in selection of successful applicants will be used to create study materials for selection methods in the future.
Enrollees' personal information, obtained through applications, will be used in (1) Educational activities (registration, student guidance, etc.), (2) Student support (health management, employment support, exemption from tuition/application for student loans), and (3) Tuition collection.
- (2) Applicants wishing to obtain a scholarship should contact the Academic Affairs Support Department, Office of Student Support (Tel: 055-220-8053), for information after announcement of successful applicants.

4 . Course or Program Descriptions

Course or Program Descriptions from the Master's Course (Department of Engineering) of the Integrated Graduate School of Medicine, Engineering, and Agricultural Sciences

• Mechanical Engineering Course

| Supervisors | | Main topics of research | Leading subjects |
|---------------------|---------------------|---|--|
| Professor | FUJIMORI Atsushi | Modeling and control design of mechanical systems, navigation of mobile robots | Advanced thermal engineering Advanced mechanical dynamics and control Advanced fluid mechanics Advanced strength of materials Advanced material processing Advanced mechanical materials engineering Advanced mechanical systems engineering |
| Professor | TAKEDA Tetsuaki | Heat and mass transport phenomena | |
| Professor | NAKAYAMA Yoshihiro | Mechanical properties and microstructure of metallic materials | |
| Professor | OKAZAWA Shigenobu | Computational mechanics and its application to automobile engineering | |
| Associate Professor | TSUNODA Hiroyuki | Experimental and numerical studies on diffusion of passive scalars in a turbulent flow | |
| Associate Professor | YOSHIHARA Shoichiro | Deformation process control of sheet and tube metal forming | |
| Associate Professor | ITO Yasumi | Medical and welfare engineering, forensic engineering | |
| Associate Professor | NODA Yoshiyuki | Analysis and control of dynamical systems | |
| Associate Professor | YAMAMOTO Yoshinobu | Computational fluid dynamics, multiphase flow engineering magnetohydrodynamics | |
| Associate Professor | TORIYAMA Koji | Effective use of thermal energy and accelerated methods of numerical simulation using GPU | |
| Associate Professor | AOYAGI Junichiro | Evaluation and improvement of space propulsion systems | |
| Associate Professor | HARAMIISHI Yasutake | Machining and profile measurement using image processing | |

• Electrical and Electronic Engineering Course

| Supervisors | | Main topics of research | Leading subjects |
|---------------------|------------------|---|---|
| Professor | UCHIYAMA Chikako | Quantum statistical research on quantum transport and microscopic heat engines | Advanced optical and acoustic waves engineering Advanced quantum engineering Advanced electronic device engineering Advanced crystal engineering Advanced signal and systems engineering Advanced electronic circuits engineering Advanced measuring engineering Advanced electrical power engineering Advanced power semiconductor modules engineering |
| Professor | OHKI Makoto | Signal processing, especially theory and application of multidimensional and adaptive signal processing | |
| Professor | KAKIO Shoji | Surface acoustic wave devices, optical guided wave devices | |
| Professor | TOYOKI Hiroyasu | Non-equilibrium dynamics of social and physical systems | |
| Professor | NABETANI Yoichi | Crystal growth and characterization of compound semiconductors | |
| Professor | HANAWA Masanori | Optical fiber/wireless communication systems, passive devices for linear optical signal processing, fiber sensing, UWB impulse radar, medical signal processing | |
| Professor | YANO Koji | Design and fabrication of power semiconductor devices | |
| Associate Professor | ONOJIMA Norio | Fabrication of high-performance organic transistors and organic solar cells | |
| Associate Professor | SATO Takahide | LSI design, technology for low consumption of electrical power, high frequency analog circuits | |
| Associate Professor | SHIRAKI Ichiro | Physical property measurements and structure analysis of nanomaterials by scanning probe microscopy | |
| Associate Professor | CHEN Lee Chuin | Development of new ionization methods for mass spectrometry | |
| Associate Professor | NINOMIYA Satoshi | Development of novel ion beams for surface analysis | |
| Associate Professor | HONMA Satoshi | Development and application of optical functional devices, optical switches and memory | |
| Associate Professor | MURANAKA Tsutomu | Design, growth, fabrication, and characterization of semiconductor nanostructures for applications in nanoelectronics | |

Note: Some professors affiliated with this course are also in charge of the Special Educational Program for Green Energy Conversion Science and Technology

• Computer Science and Engineering Course

| Supervisors | | Main topics of research | Leading subjects |
|---------------------|---------------------|--|--|
| Professor | IWANUMA Koji | Data mining, automated theorem proving, artificial intelligence | Large-scale discrete structure processing Parallel computing Software engineering Internet engineering Machine learning Visual information processing Natural language and speech information processing User-centered design methodology |
| Professor | OHBUCHI Ryutarou | Multimedia data retrieval, visual information processing | |
| Professor | OZAWA Kenji | Acoustic signal processing, auditory information processing, audio-visual perceptive computing | |
| Professor | GO Kentaro | Interactive systems design methodology | |
| Professor | TAKAHASHI Masakazu | Software engineering, reliable software | |
| Professor | FUKUMOTO Fumiyo | Natural language processing, computational linguistics | |
| Professor | Mao Xiaoyang | Computer graphics and data visualization | |
| Professor | MINO Hidetoshi | Parallel processing, information security, computer networks | |
| Associate Professor | ANDOH Hidetoshi | Distributed and collaborative systems, interactive multimedia technology | |
| Associate Professor | OMATA Masaki | Human-computer interaction | |
| Associate Professor | KINOSHITA Yuichiro | Affective information processing, human interfaces | |
| Associate Professor | SUZUKI Tomohiro | High-performance computing | |
| Associate Professor | NABESHIMA Hidetomo | Artificial intelligence, knowledge representation and reasoning, constraint satisfaction systems | |
| Associate Professor | HATTORI Motonobu | Neural networks | |
| Associate Professor | WATANABE Yoshimichi | Software development techniques | |

• Mechatronics Course

| Supervisors | | Main topics of research | Leading subjects |
|---------------------|---------------------|--|--|
| Professor | ISHII Takaaki | Research on actuators using high power ultrasonics | Advanced mechatronics engineering Advanced robotics engineering Advanced human engineering Advanced embedded systems design Advanced materials engineering Advanced actuator engineering Advanced electromagnetic engineering Advanced communication-controlling networks Advanced medical and welfare instruments |
| Professor | KOTANI Shinji | Autonomous mobile robot navigation and environmental understanding by robot vision | |
| Professor | SUZUKI Yoshimi | Information retrieval, natural language processing, spoken language understanding | |
| Professor | TERADA Hidetsugu | Robotics and actuator engineering | |
| Professor | FURUYA Nobuyuki | Robotics and mechatronics | |
| Professor | MUNEHISA Tomoo | Quantum field theory, neural networks | |
| Professor | MORISAWA Masayuki | Intelligent sensors using plastic optical fiber | |
| Associate Professor | ISHIDA Kazuyoshi | Friction, wear, and lubrication | |
| Associate Professor | OKAMURA Miyoshi | Universal designs for public facilities | |
| Associate Professor | KITAMURA Toshiya | Study of sound emission from air-flow and low-frequency noise | |
| Associate Professor | JIN Lianhua | Optical measurement, optoelectronics | |
| Associate Professor | SHIMIZU Tsuyoshi | Profile measurement and application of image processing | |
| Associate Professor | TANZAWA Tsutomu | Environment recognition using stereo vision | |
| Associate Professor | NISHIZAKI Hiromitsu | Speech processing and spoken language processing | |
| Associate Professor | HIRA Shinichiro | Micromachining for fabrication of micro fluidic chips | |

• Civil and Environmental Engineering Course

| Course | Supervisors | | Main topics of research | Leading subjects |
|------------------------------|---------------------|------------------------------|---|--|
| Civil Management Engineering | Professor | SATO Masahisa | Application of mathematics to environmental preservation engineering | Disaster management and engineering Continuum mechanics of solids for civil engineers Infrastructure maintenance engineering Environmental preservation engineering Practical urban planning |
| | Professor | SUZUKI Takeyasu | Application of risk communication and ICT to regional disaster management | |
| | Professor | KANEKO Hidehiro | Bio-waste treatment, ecotoxicity evaluation of solid waste | |
| | Professor | SUETSUGI Tadashi | Prevention, mitigation, and risk avoidance of flood disasters | |
| | Professor | SASAKI Kuniaki | Transportation engineering and mobility design | |
| | Professor | KOBAYASHI Masaki | Fundamentals of control by high-dimensional signal processing | |
| | Associate Professor | GOTO Satoshi | Geotechnical engineering for disaster mitigation and rehabilitation | |
| | Associate Professor | ISHII Nobuyuki | Landscape design, aesthetical structure design, and urban planning and design | |
| | Associate Professor | MORI Kazuhiro | Bioenvironmental engineering for water treatment, remediation and resource use | |
| | Associate Professor | SAITO Shigehiko | Life cycle simulation of concrete structures | |
| | Associate Professor | MUTO Shinichi | Projects and public policy evaluation of urban planning | |
| | Associate Professor | HADA Yasunori | Measures and strategies for disaster risk reduction and a resilient society | |
| | Associate Professor | YOSHIDA Junji | Dynamics of structures, mechanics of solids and health monitoring of structures | |
| | Associate Professor | KATAYAMA – HIRAYAMA Keiko | Biochemical and physicochemical water treatment | |

• Applied Chemistry Course

| Supervisors | | Main topics of research | Leading subjects |
|------------------------------|-----------------------|--|---|
| Professor | SUZUKI Akihiro | Development of nanofiber preparation methods, analysis of superstructures | Advanced organic chemistry Advanced inorganic chemistry I Advanced inorganic chemistry II Advanced analytical chemistry Advanced physical chemistry Advanced polymer chemistry Advanced quantum chemistry for energy conversion Advanced course in materials design for fuel cells |
| Professor | HARAMOTO Yuichiro | Synthesis of new functional liquid crystalline materials | |
| Professor | KAWAKUBO Susumu | Development and application of trace analytical methods | |
| Professor | WADA Satoshi | Development of environmentally friendly electroceramics with high performance by nanostructure control | |
| Professor | TANAKA Isao | Growth technique and new function discovery of functional oxide single crystals | |
| Professor | KUMADA Nobuhiro | Synthesis and crystal structure analysis of new inorganic compounds | |
| Professor | IRIE Hiroshi | Development of materials for energy and environmental preservation | |
| Professor | OKUZAKI Hidenori | Plastic electronics with conductive polymers | |
| Professor | UCHIDA Hiroyuki | Design and nanoscale analysis of electrocatalysts for fuel cells | |
| Professor | SHIBATA Masami | Control of surface and interface by wet processing | |
| Professor | MIYATAKE Kenji | Synthesis and characterization of polymer electrolyte membranes for fuel cells | |
| Professor | TAKEI Takahiro | Synthesis of functional inorganic porous materials | |
| Professor | UCHIDA Makoto | Design of high-performance membrane electrode assemblies for fuel cells | |
| Professor | YANAGI Hiroshi | Exploration of new functional oxide semiconductors | |
| Research Professor | INUKAI Junji | Analysis of solid surface structure, electronic state, and reactivity | |
| Research Professor | HIGASHIYAMA Kazutoshi | Catalysts for hydrogen production and purification | |
| Research Professor | MIYAO Toshihiro | Nanostructured catalysts for hydrogen production | |
| Research Professor | OMATA Tomio | Evaluation and analysis of various fuel cell systems | |
| Research Professor | TRYK, Donald A | Analysis of electrocatalysis in fuel cells | |
| Research Professor | KAKINUMA Katsuyoshi | Synthesis and analysis of nanomaterials for fuel cells | |
| Research Professor | TSUNEDA Takao | Theoretical studies on electrochemical reaction processes in fuel cells | |
| Associate Professor | TANI Kazue | Elucidation of retention mechanism in high-performance liquid chromatography | |
| Associate Professor | KUWABARA Tetsuo | Development of functional dyes and supramolecular materials | |
| Associate Professor | OBATA Makoto | Synthesis and application of functional polymers | |
| Associate Professor | YONEYAMA Naoki | Single crystal growth and physical properties of organic conductors | |
| Associate Professor | YONEZAKI Yoshinori | Synthesis and structure analysis of inorganic photofunctional material | |
| Associate Professor | SAKANE Hideto | Analysis of local structure and character of inorganic compounds | |
| Associate Professor | NOHARA Shinji | Electrocatalysts for fuel cells | |
| Associate Professor | WATAUCHI Satoshi | Growth and characterization of single crystals of oxide superconductors | |
| Associate Professor | MIYAJIMA Naoya | Surface modification and applications of materials | |
| Research Associate Professor | YANO Hiroshi | Synthesis and characterization of nanocatalysts for fuel cells | |

Note: Some professors affiliated with this course are also in charge of the Advanced Materials Science Course or Special Educational Program for Green Energy Conversion Science and Technology

• Advanced Material Science Course

| Supervisors | | Main topics of research | Leading subjects |
|---------------------|---------------------|---|--|
| Professor | KUMADA Nobuhiro | Synthesis and crystal structure analysis of new inorganic compounds | Advanced condensed matter physics Advanced quantum devices Advanced photonics Lectures on advanced electronics Advanced functional materials Advanced quantum material science Structure and chemistry of crystalline solids |
| Professor | KOBAYASHI Kiyoshi | Quantum field theory with light-matter interaction in open nanosystems, fundamental research on spin-related nanophotonics with tripartite synaptic functions | |
| Professor | KONDOH Eiichi | Processing and evaluation of micro- and nanomaterials | |
| Professor | TAKEI Takahiro | Soft chemical synthesis of new functional inorganic material | |
| Professor | TANAKA Isao | Growth technique and new function discovery of functional oxide single crystals | |
| Professor | HARIMOTO Tetsuo | Nonlinear optical effects with ultrahigh intensity and ultrashort laser pulses | |
| Professor | FUJIMA Kazumi | Scattering theory of light and electrons by atoms and molecules | |
| Professor | HORI Hirokazu | Quantum electronics, nano-optoelectronics, near-field optics, electrodynamics, theory of functionality, medical applications | |
| Associate Professor | ARIMOTO Keisuke | Electronic properties of group IV semiconductor heterostructures | |
| Associate Professor | ISHIKAWA Akira | Theory of quantum optics in open nanosystems | |
| Associate Professor | IJIMA Kaoru | Surface science | |
| Associate Professor | OGAWA Kazuya | Optical functional organic materials | |
| Associate Professor | KATOH Hatsuhiro | Physics and technologies for designing electronic devices | |
| Associate Professor | SAKAI Masaru | Nanophotonics, optical properties of nanomaterials | |
| Associate Professor | SATO Tetsuya | Fundamentals of the physicochemical process on surfaces and formation of thin films | |
| Associate Professor | SYOUJI Atsushi | Optical properties of condensed matter and semiconductors | |
| Associate Professor | YAMANAKA Junji | Transmission electron microscopy of semiconductors, metallic alloys, and other inorganic materials | |
| Associate Professor | YONEZAKI Yoshinori | Synthesis and structure analysis of inorganic photofunctional materials | |
| Associate Professor | WATAUCHI Satoshi | Development of techniques for crystal growth using infrared convergent heating systems | |
| Associate Professor | WATANABE Katsuyoshi | Optical properties of quantum structures and nanoparticles | |

Note: Some professors affiliated with this course are also in charge of the Applied Chemistry Course

• Special Educational Program on River Basin Environmental Sciences

| Supervisors | | Main topics of research | Leading subjects |
|---------------------|--------------------|--|--|
| Professor | SAKAMOTO Yasushi | Movement of environmental pollutants accompanying the natural water cycle | International partnership for environment I Environmental data analysis I Remote sensing and GIS I River basin medicine and engineering Advanced river basin management Advanced hydraulics and hydrology Advanced water quality assessment Advanced environmental treatment technology |
| Professor | MASUTANI Keiichi | Physics of hydraulics and hydrology | |
| Professor | KAZAMA Futaba | Development of eco-friendly water treatment systems and its application to water quality management | |
| Associate Professor | NISHIDA Kei | Nutrient runoff and health impact assessment in river basins | |
| Associate Professor | ISHIDAIIRA Hiroshi | Development of Hydrological model, Hydrology in Cryosphere | |
| Associate Professor | HARAMOTO Eiji | Fate of health-related water microorganisms in aquatic environments | |
| Associate Professor | TOYAMA Tadashi | Environmental purification, waste/wastewater treatment, re-production of energy/material from waste/wastewater | |
| Associate Professor | SOUMA Kazuyoshi | Meteorological and hydrological modeling, including human activities/prediction of water disasters | |

Note: Some professors affiliated with this course are also in charge of other courses and majors. Some professors affiliated with other course and majors are also in charge of this course.

• Special Educational Program for Green Energy Conversion Science and Technology

| Field | Supervisors | | Main topics of research | Leading subjects |
|-----------------------|---------------------|-----------------------|--|--|
| Fuel Cells | Professor | UCHIDA Hiroyuki | Design of electrocatalysts for polymer electrolyte and solid oxide fuel cells | Advanced course in materials design for fuel cells Advanced course in electrocatalyst design Advanced course in science and technology Advanced physical chemistry |
| | Professor | UCHIDA Makoto | Design of high-performance membrane electrode assemblies for fuel cells | |
| | Professor | MIYATAKE Kenji | Synthesis and characterization of polymer electrolyte membranes for fuel cells | |
| | Associate Professor | NOHARA Shinji | Electrocatalysts for polymer electrolyte fuel cells | |
| | Research Professor | IYAMA Akihiro | Polymer electrolyte fuel cells for advanced vehicles | |
| | Research Professor | KAKINUMA Katsuyoshi | Synthesis and analysis of nanomaterials for fuel cells | |
| | Research Professor | TSUNEDA Takao | Theoretical Studies on electrochemical reactions in fuel cells | |
| Solar Energy | Professor | IRIE Hiroshi | Creation and evaluation of solar energy conversion and environmental materials | Advanced course in engineering for solar energy conversion Advanced course in quantum science for semiconductors Advanced course in electromagnetics Advanced quantum science |
| | Professor | NABETANI Yoichi | Growth and control of properties of multifunctional semiconductor crystals | |
| | Professor | YANAGI Hiroshi | Synthesis and characterization of oxide semiconductors for solar energy conversion | |
| Conversion Materials | Professor | WADA Satoshi | Creation and characterization of environmentally compatible piezoelectric ceramics | Advanced course in science for solid state materials Advanced course in design of inorganic materials Advanced course in polymer materials chemistry Advanced course in surface and interface science Advanced course in materials physics |
| | Professor | TANAKA Isao | Growth and creation of new functions of functional material single crystals | |
| | Professor | KUMADA Nobuhiro | Synthesis and characterization of new inorganic compounds | |
| | Professor | OKUZAKI Hidenori | Plastic electronics with conductive polymers | |
| | Research Professor | INUKAI Junji | Analysis of surface structure and electronic state of energy conversion materials | |
| | Research Professor | BRITO Manuel E. | Synthesis of functional ceramics and analysis of interfacial structures | |
| New Energy Technology | Professor | KONDOH Eiichi | Processing and evaluation of micro- and nanomaterials | Advanced engineering of micro- and nanomaterials Advanced course in science for renewable energies Advanced course in science for solid state materials Advanced course in catalyst science |
| | Professor | KOMIYAMA Masaharu | Energy conversion processes and biomass catalysts | |
| | Professor | TAKEI Takahiro | Preparation and characterization of functional organic-inorganic composites | |
| | Research Professor | MIYAO Toshihiro | Nanostructured catalysts for hydrogen production | |
| | Research Professor | HIGASHIYAMA Kazutoshi | Catalysts for hydrogen production and purification | |
| Common | Research Professor | TRYK Donald A. | Analysis of electrocatalysis in fuel cells | Advanced course in English for green energy science and technology, elementary level |

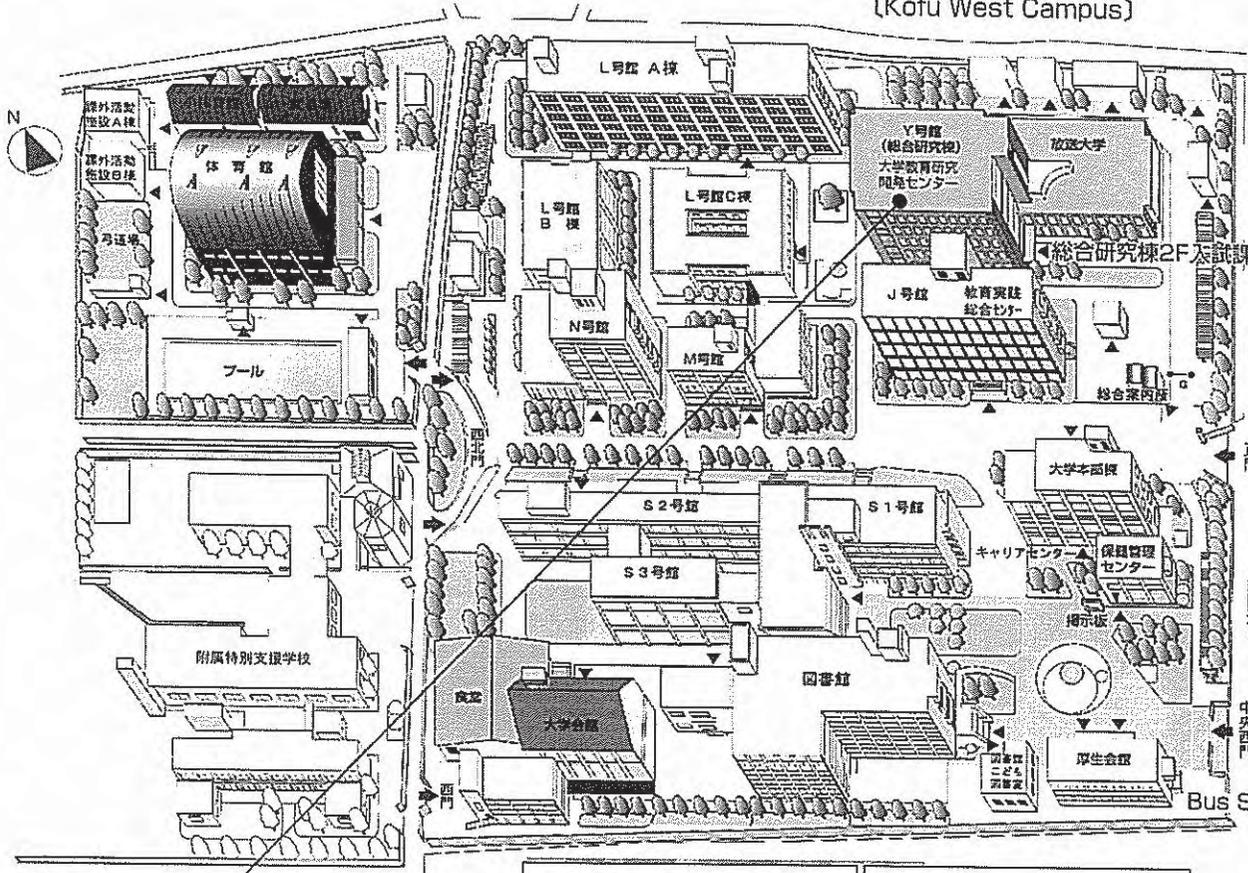
Note: Some professors affiliated with this course are also in charge of other courses.

Notes for filling out the form

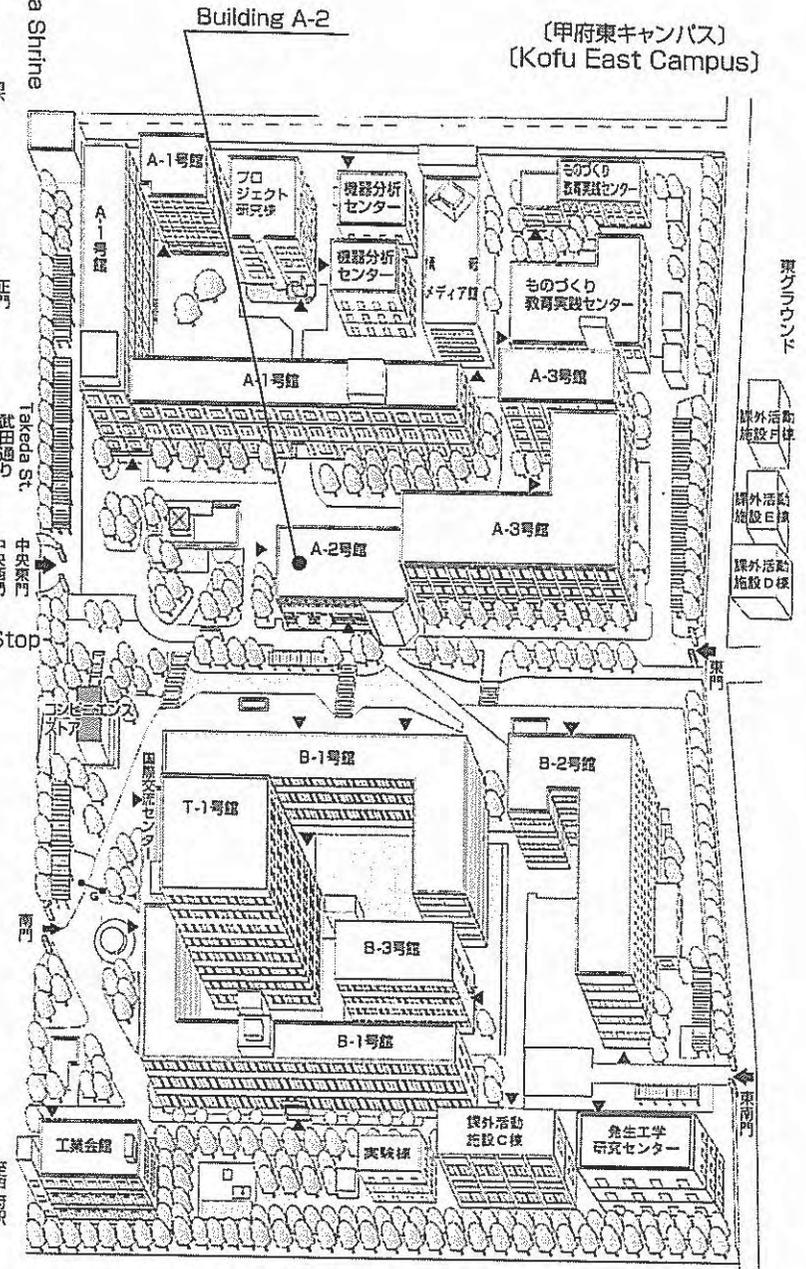
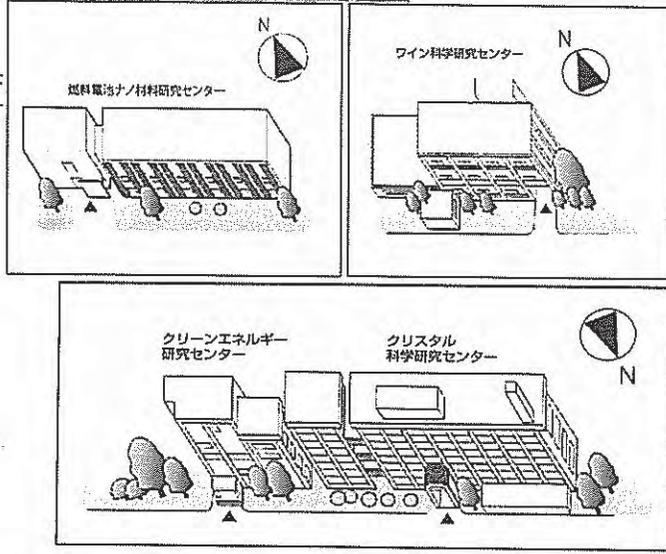
- 1) Blanks marked ※ are to be filled in by the Office of Admissions.
- 2) Please fill out the forms in block letters using a ballpoint pen.
- 3) Please choose your desired course or program and write it on the forms as it appears in the application guidelines.
- 4) For the Special Educational Program for Green Energy Conversion Science and Technology only: Please choose your desired field and write it on the forms as it appears in section 5 of the Course Descriptions.
- 5) If you are applying for the Special Educational Program for Green Energy Conversion Science and Technology, choose one subject group and write it on the Entrance Application Form and Examination Admission Slip.
- 6) Please write the name of your university, which must match the name of the university that prepared your academic transcript.
- 7) Please circle your desired period of enrollment. Note that changes cannot be made to your selection once the application has been received by our office.
- 8) Please inform us promptly in case of address change after submission of you application.

〔甲府西キャンパス〕
〔Kofu West Campus〕

山梨大学(甲府キャンパス)建物配置図
University of Yamanashi, Kofu Campus Map



Office of Admissions
Administration Building 2F



山梨大学甲府キャンパス周辺図

University of Yamanashi, Kofu Campus Location Map

甲府駅下車、北口から徒歩約20分

甲府駅下車、北口からバス(武田神社、積翠寺行き)で約5分 山梨大学下車

Take the JR train to Kofu Station and follow the signs to the North Exit.

The campus is about a 20 minutes walk from Kofu Station.

Take the JR train to Kofu Station. From the bus terminal at the North Exit, take a bus bound either for "Takeda Shrine," or "Sekisuiji Temple." After about 5 minutes, get off at the University of Yamanashi Bus Stop.



構内には駐車場がありませんので、電車、バス等の公共交通機関を利用してください。

As there is no parking area available on the campus property, please use public transportation.