# **Overseas Selection for International Students**

# **Application Guidelines for Enrollment in October 2022**

**Graduate School of Natural Science and Technology** 

(Doctor's Course)

**OKAYAMA UNIVERSITY** 

## Policies for Graduate Education (Diploma Policy, Admission Policy, Curriculum Policy)

Please refer to the following website about the Policies for Graduate Education https://www.gnst.okayama-u.ac.jp/en/about\_us/admission\_policy/

#### I. Admission Quota

Time of Enrollment; October 2022

Division	Quota
Mathematics and Physics	
Earth, Life, and Molecular Sciences	
Interdisciplinary Science	A Few
Industrial Innovation Sciences	
Applied Chemistry	

# II. Eligibility for Application

Those to whom all the following provisions are applicable:

- 1 Those to whom the following items are applicable, or are expected to be applicable by September 2022.
  - (1) Have a master's or professional degree.
  - (2) Have been awarded a degree equivalent to a master's degree or professional degree abroad.
  - (3) Have completed the program at United Nations University and have been awarded a degree equivalent to a master's degree.
  - (4) Are deemed to have academic ability equal to or greater than that of a master's degree holder by the Graduate School and who have reached the age of 24.
- 2 Those who are foreign citizens who live outside Japan and who are unable to come to Japan to take their entrance examinations (except citizens and permanent residents of Japan).
- 3 Those who are expected to obtain a visa status of "Student" stipulated in the Immigration Control and Refugee Recognition Act after being enrolled in the Graduate School.
- 4 Those who were recommended by the schools from which they graduated as being particularly excellent in both personality and academic ability.
- Note 1: Those who "Are deemed to have academic ability equal to or greater than that of a master's degree holder by the Graduate School" specified in item 4 of Provision 1 refers to applicants who passed the document screening that the Graduate School provides as the screening of the eligibility for application. (See III Individual Screening of Eligibility for Admission in Eligibility for Application.)
- Note 2: We withdraw permission for admission for those who applied as a prospective degree holder but who failed to be awarded the degree by September 2022.
- Note 3: Those "who live outside Japan and are unable to come to Japan to take their entrance examinations" specified in Provision 2 include people who are staying in Japan at the time of application but depart from Japan because their duration of stay expires by the end of July, 2022.
  - For more details, please contact Graduate School Section, Academic Affairs Division, Graduate School of Natural Science (E-mail: agf8576@adm.okayama-u.ac.jp).

# III. Individual Admission Eligibility Screening in Eligibility for Application

For those applicants for admission who fall under item 4 of Provision 1 specified in the previously described II Eligibility for Application, we conduct individual admission eligibility screenings for the approval of admission eligibility before application. The applicants must submit the documents required for the admission eligibility screening specified in Provision 2 to the Graduate School Section, Academic Affairs Division, Graduate School of Natural Sciences by each deadline stated in Provision 1.

#### 1. Submission Period of Documents for Admission Eligibility Screening

Enrollment		Submission Period
October 2022	First Submission Period	May 9, 2022 to May10, 2022
Enrollment	Second Submission Period	May 25, 2022 to May 26, 2022

# 2. Documents Required for Admission Eligibility Screening

Documents Required for Application	Remarks
⟨1⟩ Form of Eligibility for Application	Use the forms prescribed by the Graduate School of Natural Science and Technology.
〈2〉 Record of Academic Performance	Use the form prescribed by the Graduate School of Natural Science and Technology. (Briefly describe objective findings from research results relevant to the field of major.) With regard to academic papers, attach an offprint or a copy and attach a summary or abstract for research presentations.
〈3〉 Certificate of Research Participation	Use the form prescribed by the Graduate School of Natural Science and Technology.  (The form must be completed by the institution with which the applicant is affiliated.)
(4) Academic Transcript (of last completed education)	Submit a transcript issued by the president of the final school from which the applicant graduated.
⟨5⟩ Graduation Certificate (of last completed education)	Submit a graduation certificate issued by the president of the final school from which the applicant graduated.

Note1: All of the documents mentioned above must be prepared in English, in principle. (When English is not your native language, attach English translations.)

Note2: Documents <1>, <2>, <3>, <4>, and <5> must be submitted in original. For documents <4> and <5>, a copy of the original document verified by the issuer is acceptable.

Note3: The result of the Admission Eligibility Screening will be notified through your prospective supervisor.

Enrollment		Date of notification of screening result
October 2022	First Submission Period	May 25, 2022
Enrollment	Second Submission Period	June 22, 2022

# **IV. Application Procedures**

#### 1. How to Apply

Applicants must complete all the procedures described in items 1 through 3 below:

(1) Before preparing documents for application, applicants must directly contact a prospective supervisor at Graduate School of Natural Science and Technology by such as email, consult about research and education after enrollment, obtain approval to take the examination, and receive a copy of "Letter of Informal Acceptance by Prospective Supervisor". With regard to prospective supervisors at Graduate School of Natural Science and Technology, please visit the Website of the Graduate School of Natural Science and Technology below:

https://www.gnst.okayama-u.ac.jp/en/major/divisions/

- (2) Pay the entrance examination fee after having obtained the approval by the prospective supervisor. (Except those who are exempted from the payment.)
- (3) Send all the documents for application by mail to arrive no later than each date stated in "2 Application Period".

2. Application Periods

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Enrollment		Application Periods
October 2022	First Application Period	May 27, 2022 to June 6, 2022
Enrollment	Second Application Period	June 23, 2022 to July 6, 2022

#### 3. Address for Submission of Documents

Graduate School Section Academic Affairs Division

Graduate School of Natural Science and Technology

Okayama University

3-1-1, Tsushima-naka, Kita-ku, Okayama 700-8530, Japan

#### 4. Notes on Application

- (1) No change shall be permitted after submission in terms of the contents of the documents submitted.
- (2) No document shall be returned for any reason after the application documents are accepted.
- (3) Application with incomplete application documents or shortage of examination fee shall not be accepted.
- (4) Please note carefully that admission might be withdrawn even after enrollment if the contents of the submitted documents are found to include false entries.
- (5) Certificates issued under the former name, which differs from the name written on the application form are useful. However, in such cases, attach a document (in any form) with the date of name change and the new and the former name are written personally by the applicant.

5. Documents Required for Application

Documents Required for Application	Remarks
<ul><li>〈1〉 Application for admission</li><li>Curriculum Vitae (CV)</li><li>Photograph</li></ul>	Use the forms prescribed by Graduate School of Natural Science and Technology.  Affix a photograph (4 cm long × 3 cm wide, upper body, no headwear, facing forward, taken within the three months before application) on the prescribed space on the "Application for admission".

〈2〉 Entrance Examination Fee	30,000yen (handling fees will be charged separately)		
	Please refer to "Paying for Entrance Examination Fees" below and pay the entrance examination fee by 17:00 (Japan time) on the last day of the application period on "Payment for Entrance Examination Fee website". In addition, please be sure to choose "Credit Card" for payment method. Other payment methods cannot use from overseas.  After confirming the payment of the entrance examination fee, print "Certificate of Entrance Examination Fee Payment" and attach it to the prescribed section of the prescribed form.		
	Paying for Entrance Examination Fees https://www.gels.okayama-u.ac.jp/up_load_files/freetext/kenteiryo/oversea_eng.pdf		
	Payment for Entrance Examination Fee website https://e-apply.jp/n/okayama-payment-eng		
	If you could not pay by the payment method above, contact Graduate School Section, Academic Affairs Division, Graduate School of Natural Sciences.		
	Refund of Entrance Examination Fee  The entrance examination fee paid is not refundable for any reason, except in the following cases:  a) Entrance examination fee was paid, but application was not made (application documents were not submitted or not accepted.)  b) Entrance examination fee was accidentally transferred twice.  c) Those applicants who are Japanese-government sponsored students need not pay the entrance examination fee, in principle. However, in the case in which the period of their scholarship ends by September 30, 2022, the payment of the entrance examination fee is required. When the extension of the scholarship period is approved, the entrance examination fee will be refunded.		
⟨3⟩ University	Graduation Certificate	Submit certificates issued by the university from which you graduated.	
	Transcript	, , , , , , , , , , , , , , , , , , , ,	
⟨4⟩ Graduate School (Prospective)	Completion Certificate	Submit certificates issued by the graduate school which you graduated (or will graduate).	
1	Transcript	, , , , , , , , , , , , , , , , , , , ,	
⟨5⟩ Papers Submitted (Copy)	<ul><li>a) Master's thesis or an equivalent research paper (in English or Japanese)</li><li>b) List of research achievements after earning the Master's degree and one or two representative papers of them. (If applicable)</li></ul>		
⟨6⟩ Research Plan Document	Use the form prescribed by Graduate School of Natural Science and Technology.		

Submit a copy of the page of passport which can confirm the name, the date of birth, etc  If not possessing the passport, please submit the certificate which is acquired copy of the family register or citizen membership, etc. in your home country.	
form2 prescribed by Graduate School of d Technology. scription on each form for the person who	
Form 2 to prepare the letter of recommendation.  Contact to your prospective supervisor at Graduate School of Natural Science and Technology to prepare the document. Submit a copy of the letter written by a prospective supervisor.	
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Note 1: All documents to be submitted must be prepared in the same size (preferably A4 size) and be typewritten.

Note 2: We do not accept documents that are incomplete, not written completely and accurately, or which are received after the deadline for submission.

Note 3: The previously described documents **must be prepared in English**, except  $\langle 10 \rangle$  . (When English is not your native language, attach English translations.)

Note 4: Documents <1>, <3>, <4>, <6>, and <9> must be submitted in original. For documents<3> and <4>, a copy of the original document verified by the issuer is acceptable.

#### 6. Purpose of Use of Personal Information

Application documents submitted and personal information written on them are used for affairs related the selection of entrants.

However, regarding entrants, we use their personal information written on the application form, including name, gender, date of birth, current address, and schools graduated from, as registry data for basic student information in the academic affairs system at Okayama University.

In addition, successful applicants' personal information, examinee number and name (kanji/ kana), are used for the clerical systems for tuition fee debt management and tuition fee waiver at Okayama University.

When application for admission fee waiver, postponement of admission fee collection, tuition fee waiver, or various scholarships was made, the applicant's entrance examination results and academic transcript might be used to handle academic ability judgment related to affairs such as postponement of admission fee collection.

#### V. Methods for Selection of Entrants

Selection of entrants shall be made based on document screening and pass or failure is determined.

## VI. Announcement of Successful Applicants

	Enrollment	Date of Announcement
October 2022	For the First Application Period	June 24, 2022
Enrollment	For the Second Application Period	July 29, 2022

A letter of acceptance and others will be sent to successful applicants themselves dated on the day of the announcement described above.

#### VII. Admission Procedures

#### 1. Method of Admission Procedures

Details will be informed separately by your supervisor with a letter of acceptance.

#### 2. Period of Admission Procedures

The period of admission procedures has been scheduled as follows:

Enrollment	Period of Admission Procedures
October 2022 Enrollment	September 16, 2022 to September 20, 2022

#### VIII. Other

#### 1. Admission Fee and Tuition Fee

(Applicable only for self-supporting international students. Foreign-government sponsored students need not to pay.) Admission fee: 282,000 yen (expected amount)

Tuition fee: 267, 900 yen (for half a year); 535,800 yen (for a year)

When the amount was revised at the time of admission or while at school, the new amount will be applied from the time of the revision.

#### 2. Study Assistance

For self-supporting international students, we have systems as part of study assistance: admission fee waiver, postponement of admission fee collection, tuition fee waiver, and various scholarships.

If your academic achievement, income, etc. meet the requirements, then you may apply for admission fee waiver, postponement of admission fee collection, and tuition fee waiver and have a full or half waiver.

When your academic achievement, income, etc. meet the requirements, you may apply for various scholarships and receive scholarship benefits.

#### 3. Notes

It is recommended that international students have sufficient knowledge of the climate, weather, and customs of Japan as well as the situation of the university in advance before coming to Japan.

Education and research activities will be conducted mainly in Japanese language. Consult with your desired supervisor in advance if you wish to have guidance in English.

In everyday life, you will need Japanese language skills. It is also desired that candidates have studied Japanese language.

Okayama University has a Japanese language course for international students. Please take the course if you like.

**4.** Okayama University has established the "Security Export Control Regulations of Okayama University" under the Security Export Control System based on the "Foreign Exchange and Foreign Trade Act (FEFTA)", and conducts strict screening when accepting foreign students.

If you are subjected to this regulation or FEFTA, you may not be accepted or your desired research activities may be restricted.

For details concerning the Security Export Control System in Japan, please refer to the following website.

URL; https://www.meti.go.jp/policy/anpo/englishpage.html

# 5. For more details about the application, please contact the following offices by e-mail.

(1) Inquiry about application, major field, and supervisor, etc.:

Graduate School Section Academic Affairs Division

Graduate School of Natural Science and Technology,

Okayama University

3-1-1, Tsushima-naka, kita-ku Okayama 700-8530, Japan

E-mail: agf8576@adm.okayama-u.ac.jp

(2) Inquiry about scholarship, accommodation, etc.:

International Affairs Department

Okayama University

2-1-1, Tsushima-naka kita-ku, Okayama 700-8530, Japan

Fax: +81-86-252-5022 (from overseas) Fax: 086-252-5022 (from inside Japan)

E-mail: housing@cc.okayama-u.ac.jp (Dormitory)

istudent@cc.okayama-u.ac.jp (Scholarship)

# [1] Division of Mathematics and Physics

# 1. Department of Mathematics

Research Areas	Subjects	Instructors
	Theory of Representations	ISHIKAWA Masao, Professor
	Commutative Algebra	TERAI Naoki, Professor
Alambara	Model Theory	TANAKA Katsumi, Professor
Algebra	Rings and Categories of Modules	SUZUKI Takeshi, Associate Professor
	Algebraic Geometry	ITO Atsushi, Associate Professor
	Seminar in Algebra	Faculty Members in the Research Area
	Geometric Structures	KONDO Kei, Professor
	Geometry and Mathematical Physics	JINZENJI Masao, Professor
Geometry	Advanced Topics in Topology	MONDEN Naoyuki, Associate Professor
	Stable Homotopy Theory	TORII Takeshi, Professor
	Seminar in Geometry	Faculty Members in the Research Area
	Applied Analysis	UEHARA Takato, Associate Professor
Analysis	Nonlinear Partial Differential Equation	OSHITA Yoshihito, Professor
	Seminar in Analysis	Faculty Members in the Research Area

# 2. Department of Physics

Research Areas	Subjects	Instructors
Quantum Structural Physics in Correlated Matter	Quantum Structural Physics in Correlated Matter	NOGAMI Yoshio, Professor
	Quantum Structural Physics in low Dimensional Materials	KONDO Ryusuke, Associate Professor
	Seminar in Quantum Structural Physics in Correlated Matter	Faculty Members in the Research Area
Quantum Physics in Correlated	Magnetism in Correlated Matter	MINO Michinobu, Professor
Matter	Seminar in Quantum Physics in Correlated Matter	Faculty Members in the Research Area
	Functional Correlated Electron System	IKEDA Naoshi, Professor
Physics in Advanced Functional Materials	Advanced Solid State Spectroscopy	KAMBE Takashi, Associate Professor
	Seminar in Physics in Advanced Functional Materials	Faculty Members in the Research Area
	Physics Under Extreme Environment	KOBAYASHI Tatsuo, Professor
Materials Physics in Extreme	Low Temperature Physics in Strongly Correlated Matter	INADA Yoshihiko, Professor
Environments	Low Temperature Magnetism	ARAKI Shingo, Associate Professor
	Seminar in Materials Physics in Extreme Environments	Faculty Members in the Research Area
	Superconductivity	ZHENG Guo-Qing, Professor
Low Temperature Condensed Matter Physics	Physical Properties of Solids in High Magnetic Fields	KAWASAKI Shinji, Associate Professor
	Seminar in Low Temperature Condensed Matter Physics	Faculty Members in the Research Area
Physics of Condensed Matter	Quantum Theory for Solid-State Spectroscopy	OKADA Kozo, Professor
Filysics of Colidensed Matter	Seminar in Physics of Condensed Matter	Faculty Members in the Research Area
Astroparticle Physics	Cosmology	ISHINO Hirokazu, Professor
Asiroparticle Filysics	Seminar in Astroparticle Physics	Faculty Members in the Research Area
High Energy Physics	High Energy Particle Physics	KOSHIO Yusuke, Associate Professor
riigh Energy Physics	Seminar in High Energy Physics	Faculty Members in the Research Area

# 3. Cooperative Course (Department of X-ray Frontier Physics)

Research Areas	Subjects	Instructors
	Condensed Matter Physics Using Synchrotron Radiation	MIZUMAKI Masaitiro, Guest Professor
	Instrumentation for Synchrotron Radiation Physics	TAMENORI Yusuke, Guest Professor
Advance Synchrotron Radiation Physics	Application of Condensed Matter Physics Using Synchrotron Radiation	SATO Masugu, Guest Professor
	Structural Physics Using Synchrotron Radiation	ISHII Kenji, Guest Professor
	Seminar in Advance Synchrotron Radiation Physics	Faculty Members in the Research Area

# [2] Division of Earth, Life, and Molecular Sciences

1. Department of Chemistry

Research Areas	Subjects	Instructors
Structural Chemistry	Solid Structural Chemistry	GOTOH Kazuma, Associate Professor
	Seminar in Structural Chemistry	Faculty Members in the Research Area
Spectrochemistry	Laser Spectroscopy	TANG Jian, Professor
spectroenemistry	Seminar in Spectrochemistry	Faculty Members in the Research Area
Synthetic and Physical Organic	Organic Photochemistry	OKAMOTO Hideki, Associate Professor
Chemistry	Seminar in Synthetic and Physical Organic Chemistry	Faculty Members in the Research Area
Inargania Chamietry	Surface Inorganic Chemistry	OHKUBO Takahiro, Associate Professor
Inorganic Chemistry	Seminar in Inorganic Chemistry	Faculty Members in the Research Area
	Natural Products Chemistry	KADOTA Isao, Professor
Organic Chemistry		TAKAMURA Hiroyoshi, Associate Professor
	Seminar in Organic Chemistry	Faculty Members in the Research Area
Analytical Chemistry	Analytical Chemistry	KANETA Takashi, Professor
		TAKEYASU Nobuyuki, Associate Professor
	Seminar in Analytical Chemistry	Faculty Members in the Research Area
Oncomio Synthetic Chemistry	Synthetic Carbohydrate Chemistry	HANAYA Tadashi, Professor
Organic Synthetic Chemistry	Seminar in Organic Synthetic Chemistry	Faculty Members in the Research Area
Nama ah ami'atmi	Advanced Nanoscience	FUJIWARA Masazumi, Associate Professor
Nanochemistry	Seminar in Nanochemistry	Faculty Members in the Research Area
Company Dhyminal Chaminton	Advanced Surface Physical Chemistry	YAMAKATA Akira, Professor
Surface Physical Chemistry	Seminar in Surface Physical Chemistry	Faculty Members in the Research Area

2. Department of Biological Sciences

Research Areas	Class Subjects	Instructors
Molecular Genetics	Molecular and Developmental Genetics	NAKAGOSHI Hideki, Professor
	Biological Chemistry of Gene Regulation	ABO Tatsuhiko, Professor
	Seminar in Molecular Genetics	Faculty Members in the Research Area
Plant Ecology and Evolution	Evolutionary Ecology	MIMURA Makiko, Associate Professor
Flant Ecology and Evolution	Seminar in Plant Ecology and Evolution	Faculty Members in the Research Area
	Behavioral Neurobiology	SAKAMOTO Hirotaka, Associate Professor
Neural Control of Behavior	Neural Information Processing	MATSUI Teppei, Associate Professor
	Seminar in Neural Control of Behavior	Faculty Members in the Research Area
	Marine Genomics	HAMADA Mayuko, Associate Professor
Environmental Biology and Chronobiology	Chronoecology	YOSHII Taishi, Professor
Cilionoblology	Seminar in Environmental Biology and Chronobiology	Faculty Members in the Research Area
	Adaptational Zoology	SAKAMOTO Tatsuya, Professor
Chemical Correlation and Control	Humoral Regulation of Cell Function	TAKEUCHI Sakae, Professor
Chemical Correlation and Control	Endocrinology	AIZAWA Sayaka, Associate Professor
	Seminar in Chemical Correlation and Control	Faculty Members in the Research Area
	Developmental Genetics	UEDA Hitoshi, Professor   ☆
Developmental Biology	Plant Developmental Genetics	TAKAHASHI Taku, Professor
	Regeneration Biology	SATOH Akira, Associate Professor
	Plant Cell Biology	MOTOSE Hiroyasu, Associate Professor
	Seminar in Developmental Biology	Faculty Members in the Research Area

A name marked with a star (\$\pm\$) is scheduled for retirement as of March 31, 2023

3. Department of Earth System Science

Research Areas	Subjects	Instructors
Petrology	Crustal Evolution	NAKAMURA Daisuke, Associate Professor
	Petrology of Fluid-Rock Interaction	NOZAKA Toshio, Associate Professor
	Seminar in Petrology	Faculty Members in the Research Area
	Earthquake Physics	TAKENAKA Hiroshi, Professor
Seismology	Active Tectonics	MATSUTA Nobuhisa, Professor
	Seminar in Seismology	Faculty Members in the Research Area
Geoinformatics	Seismotectonics	KUMAMOTO Takashi, Professor
Geoinformatics	Seminar in Geoinformatics	Faculty Members in the Research Area
	Mineral Physics	URAKAWA Satoru, Professor
Physics of the Earth and Planetary	Material Science of Earth and Planetary Deep Interiors	TERASAKI Hidenori, Professor
Interiors	Paleomagnetism and Rock Magnetism	UNO Koji, Professor
	Seminar in Physics of the Earth and Planetary Interiors	Faculty Members in the Research Area
	Solar System Chemistry	YAMASHITA Katsuyuki, Associate Professor
Geochemistry	Carbonate Geochemistry	INOUE Mayuri, Professor
	Seminar in Geochemistry	Faculty Members in the Research Area
Atmospheric Sciences	Physical Climatology	NOZAWA Toru, Professor
	Earth System Dynamics and Environment	MICHIBATA Takuro, Associate Professor
	Seminar in Atmospheric Sciences	Faculty Members in the Research Area
Dlamatamy Caianasa	Science of Planetary Surface Environment	HASHIMOTO George L, Professor
Planetary Sciences	Seminar in Planetary Sciences	Faculty Members in the Research Area

#### 1. Department of Interdisciplinary Science

Research Areas	Subjects	Instructors
Mathematical Analysis	Mathematical Theory on Traveling Waves	TANIGUCHI Masaharu, Professor
	Stochastic Differential Equations	TAGUCHI Dai, Associate Professor
	Seminar in Mathematical Analysis	Faculty Members in the Research Area
	Experimental Quantum Physics	YOSHIMURA Koji, Professor
Extreme Quantum Physics	Fundamental Atomic Physics	YOSHIMI Akihiro, Associate Professor
	Seminar in Extreme Quantum Physics	Faculty Members in the Research Area
	Atomic, Molecular, and Optical Physics	UETAKE Satoshi, Associate Professor
Physics of Quantum Universe	Seminar in Physics of Quantum Universe	Faculty Members in the Research Area
		SHEN Jian-Ren, Professor
	Structural Biology	AKITA Fusamichi, Associate Professor
Structural Biology	Structural Biochemistry	SUGA Michihiro, Professor
	Seminar in Structural Biology	Faculty Members in the Research Area
	Advanced Coordination Chemistry	SUZUKI Takayoshi, Professor
Coordination Chemistry	Seminar in Coordination Chemistry	Faculty Members in the Research Area
		KASAHARA Shigeru, Professor
Quantum Physics in Condensed Matter	Advanced Quantum Condensed Matter Physics	KIHARA Takumi, Associate Professor
water	Seminar in Quantum Physics in Condensed Matter	Faculty Members in the Research Area
	Photoemission Spectroscopy of Solid Interfaces	YOKOYA Takayoshi, Professor
Physics of Solid Surfaces and	Physical Properties of Thin Films	MURAOKA Yuji, Associate Professor
Interfaces	Physics of Quantum Electronics	KOBAYASHI Kaya, Associate Professor
	Seminar in Physics of Solid Surfaces and Interfaces	Faculty Members in the Research Area
	Quantum Many-Body Physics	ICHIOKA Masanori, Professor
		JESCHKE Harald Olaf, Special Contract Personnel Professor (Special Appointment)
Quantum Many-Body Physics	Physics in Strongly Correlated Electron Systems	OTSUKI Junya, Associate Professor
	Quantum Transport Physics	ADACHI Hiroto, Associate Professor
	Seminar in Quantum Many-Body Physics	Faculty Members in the Research Area
	Science of Semiconductor Materials	KUBOZONO Yoshihiro, Professor
Physical Chemistry of Surface and	Solid Material Science	GOTO Hidenori, Associate Professor
Interface	Science of Interface Physics	EGUCHI Ritsuko, Senior Assistant Professor
	Seminar in Physical Chemistry of Surface and Interface	Faculty Members in the Research Area
		KOGA Kenichiro, Professor
Theoretical Physical Chemistry	Statistical Mechanics	SUMI Tomonari, Associate Professor
	Seminar in Theoretical Physical Chemistry	Faculty Members in the Research Area
Theoretical and Computational	Advanced Molecular Simulation	SHINODA Wataru, Professor
Chemistry	Seminar in Theoretical Physical Chemistry	Faculty Members in the Research Area
m	Theoretical Chemistry of Condensed Matter	MATSUMOTO Masakazu, Associate Professor
Theoretical Chemistry	Seminar in Theoretical Chemistry	Faculty Members in the Research Area
		NISHIHARA Yasushi, Professor
	Synthetic Organic Chemistry	MORI Hiroki, Assistant Professor
Functional Organic Chemistry		TANAKA Kenta, Assistant Professor
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1. Department of Computer Science

Research Areas	Subjects	Instructors
	Advanced Research in Computer Software	YAMAUCHI Toshihiro, Professor
Commenter Francisco	Advanced Research in Computer Hardware	WATANABE Minoru, Professor
Computer Engineering	Software Design	NOMURA Yoshinari, Associate Professor
	Seminar in Computer Engineering	Faculty Members in the Research Area
	Intelligent Image Information Processing	MOROOKA Ken'ichi, Professor
Pattern Information Processing	Natural Language Processing	TAKEUCHI Koichi, Associate Professor
	Seminar in Pattern Information Processing	Faculty Members in the Research Area
	Information Retrieval and Data Mining	OHTA Manabu, Professor
Intelligent Design	Advanced Research in Applied Information System	GOTOH Yusuke, Associate Professor
	Seminar in Intelligent Design	Faculty Members in the Research Area
Theory of Programming and Artificial Intelligence	Network Computation Theory	TAKAHASHI Norikazu, Professor
	Software Analytics	MONDEN Akito, Professor
	Human Behavior Analysis	YÜCEL Zeynep, Associate Professor
	Seminar in Theory of Programming and Artificial Intelligence	Faculty Members in the Research Area

2. Department of Information and Communication Systems

Research Areas	Subjects	Instructors
	Mobile Communications	UEHARA Kazuhiro, Professor
Mobile Communications	Mobile Radio Transmission	TOMISATO Shigeru, Associate Professor
	Seminar in Mobile Communications	Faculty Members in the Research Area
Multimedia Radio Systems	Multimedia Radio Systems	DENNO Satoshi, Professor
Multimedia Radio Systems	Seminar in Multimedia Radio Systems	Faculty Members in the Research Area
	Theory of Distributed Algorithms	FUNABIKI Nobuo, Professor
Distributed System Design	Advanced Information Hiding Techniques	KURIBAYASHI Minoru, Associate Professor
	Seminar in Distributed System Design	Faculty Members in the Research Area
	Optical and Electromagnetic Waves and Circuits	TOYOTA Yoshitaka, Professor
Optical and Electromagnetic Waves	Digital EMC Design	TOYOTA Yoshitaka, Professor
	Seminar in Optical and Electromagnetic Waves	Faculty Members in the Research Area
	Cryptography Design	NOGAMI Yasuyuki, Professor
Information Security	High Reliable Communication	KUSAKA Takuya, Associate Professor
	Seminar in Information Security	Faculty Members in the Research Area
Materials Creations	Network Systems	FUKUSHIMA Yukinobu, Associate Professor
Network Systems	Seminar in Network Systems	Faculty Members in the Research Area
Power System and Energy Network	Advanced Energy Network Engineering	TAKAHASHI Akiko, Associate Professor
Engineering	Seminar in Power System and Energy Network Engineering	Faculty Members in the Research Area

3. Department of Electrical and Electronic Engineering

Research Areas	Subjects	Instructors
Applied Superconductivity Engineering	High Tc Superconductor Engineering	KIM Seok Beom, Professor
	Applied Superconductivity Machinery	UEDA Hiroshi, Associate Professor
Engineering	Seminar in Applied Superconductivity Engineering	Faculty Members in the Research Area
	Power Quality	HIRAKI Eiji, Professor
Electric Power Conversion System Engineering	Modern Power Electronics	UMETANI Kazuhiro, Associate Professor
Engineering	Seminar in Electric Power Conversion System Engineering	Faculty Members in the Research Area
M. G. F. T.	Motor Design Engineering	TAKEMOTO Masatsugu, Professor
Motor System Engineering	Seminar in Motor System Engineering	Faculty Members in the Research Area
EL	Distributed Parameter Systems	IMAI Jun, Associate Professor
Electronic Control Engineering	Seminar in Electronic Control Engineering	Faculty Members in the Research Area
	Microwave Circuit Analysis	SANAGI Minoru, Associate Professor
Microwave Circuits	Microwave Circuit Design	SANAGI Minoru, Associate Professor
	Seminar in Microwave Circuits	Faculty Members in the Research Area
	Introduction to Nanotechnology for Energy Research	HAYASHI Yasuhiko, Professor
Nanodevice and Materials Engineering	Materials Properties	YAMASHITA Yoshifumi, Associate Professor
Engineering	Seminar in Nanodevice and Materials Engineering	Faculty Members in the Research Area
	Multiscale Numerical Analysis	TSURUTA Kenji, Professor
Multiscale Device Design	Functional Materials and Devices	TSURUTA Kenji, Professor
	Seminar in Multiscale Device Design	Faculty Members in the Research Area
0 . 1	Photonics Device Engineering	FUKANO Hideki, Professor
Optoelectronic and Electromagnetic Wave Engineering	Wireless Power Transmission Systems	FUJIMORI Kazuhiro, Associate Professor
wave Engineering	Seminar in Optoelectronic and Electromagnetic Wave Engineering	Faculty Members in the Research Area

# 4. Department of Intelligent Mechanical Systems

Research Areas	Subjects	Instructors
	Advanced Course on Intelligent Systems Optimization	NISHI Tatsushi, Professor
Intelligent Systems Optimization	Environmental Safety System Engineering	SATO Haruo, Associate Professor
	Seminar in Intelligent Systems Optimization	Faculty Members in the Research Area
Intelligent Adaptive and Learning	Construction Methodology of Robot System	MATSUNO Takayuki, Professor
System	Seminar in Intelligent Adaptive and Learning System	Faculty Members in the Research Area
Intelligent System Organization and	Intelligent Human Interface Engineering	MURATA Atsuo, Professor
Management	Seminar in Intelligent System Organization and Management	Faculty Members in the Research Area
	Selected Topics in Systems Management	ARIZONO Ikuo, Professor
Production Intelligence	Decision Making for Production	YANAGAWA Yoshinari, Associate Professor
	Seminar in Production Intelligence	Faculty Members in the Research Area
	Intelligent Mechanical Control System	HIRATA Kentaro, Professor
Intelligent Mechanical Control	Intelligent Mechanical Control Elements	NAKAMURA Yukinori, Senior Assistant Professor
	Seminar in Intelligent Mechanical Control	Faculty Members in the Research Area
	Micro Sensors and Actuators	KANDA Takefumi, Professor
Sysetm Integration	Actuator Engineering	WAKIMOTO Shuichi, Associate Professor
	Seminar in Sysetm Integration	Faculty Members in the Research Area
	Micro Robotics	MASHIMO Tomoaki, Professor
Mechatronic Systems	Biological Information Systems	SHIBANOKI Taro, Associate Professor
	Seminar in Mechatronic Systems	Faculty Members in the Research Area

# 5. Department of Advanced Mechanics

Research Areas	Subjects	Instructors
	Prediction and Control of Microstructure and Mechanical Properties of Metals	OKAYASU Mitsuhiro, Professor
Structural Materials Engineering	Materials Analysis	TAKEMOTO Yoshito, Associate Professor
	Seminar in Structural Materials Engineering	Faculty Members in the Research Area
	Solid Engineering	TADA Naoya, Professor
Applied Solid Mechanics	Materials Design	UEMORI Takeshi, Associate Professor
	Seminar in Applied Solid Mechanics	Faculty Members in the Research Area
	Advanced Machine Design	FUJII Masahiro, Professor
Machine Design and Tribology	Applied Surface Engineering	SHIOTA Tadashi, Associate Professor
	Seminar in Machine Design and Tribology	Faculty Members in the Research Area
	High Energy Beam Machining	OKADA Akira, Professor
Nontraditional Machining	Nontraditional Micro-machining	OKAMOTO Yasuhiro, Associate Professor
	Seminar in Nontraditional Machining	Faculty Members in the Research Area
	Advanced Precision Machining Technology	OHASHI Kazuhito, Professor
Manufacturing Engineering	Advanced Manufacturing System Design Engineering	KODAMA Hiroyuki, Senior Assistant Professor
	Seminar in Manufacturing Engineering	Faculty Members in the Research Area
	Aerospace Propulsion Engineering	KOUCHI Toshinori, Professor
Fluid Dynamics	Turbulent Flows in Engineering	SUZUKI Hiroki, Associate Professor
	Seminar in Fluid Dynamics	Faculty Members in the Research Area
	Heat Transfer of Multi-phase Flow	HORIBE Akihiko, Professor
Heat Transfer Engineering	Utilization of Phase-change Phenomena	YAMADA Yutaka, Senior Assistant Professor
	Seminar in Heat Transfer Engineering	Faculty Members in the Research Area
	Laser-aided Diagnostics	KAWAHARA Nobuyuki, Professor
Heat Power Engineering	Special Topics in Thermal Energy	KOBASHI Yoshimitsu, Associate Professor
	Seminar in Heat Power Engineering	Faculty Members in the Research Area

#### 1. Department of Applied Chemistry

Research Areas	Subjects	Instructors
Inorganic Materials	Thin Films of Inorganic Materials	FUJII Tatsuo, Professor
	Chemistry of Functional Inorganic Materials	KANO Jun, Associate Professor
	Seminar in Inorganic Materials	Faculty Members in the Research Area
	Ceramics Materials	KISHIMOTO Akira, Professor
Solid State Chemistry	Energy Materials Chemistry	TERANISHI Takashi, Associate Professor
	Seminar in Solid State Chemistry	Faculty Members in the Research Area
I. C B E : :	Advanced Interface Design	ONO Tsutomu, Professor
Interface Process Engineering	Seminar in Interface Process Engineering	Faculty Members in the Research Area
	Advance in Particle Characteristics	GOTOH Kuniaki, Professor
Fluid and Particle Process Engineering	Thermal Transport Phenomena	NAKASO Koichi, Associate Professor
	Seminar in Fluid and Particle Process Engineering	Faculty Members in the Research Area
	Design of Biocatalysts and Bioprocesses	IMAMURA Koreyoshi, Professor
Bioprocess Engineering	Interface Science and Technology for Biomaterials	ISHIDA Naoyuki, Associate Professor
	Seminar in Bioprocess Engineering	Faculty Members in the Research Area
	Green Process Chemistry	SUGA Seiji, Professor
Synthetic Process Chemistry	Synthetic Processes of Organic Materials	MITSUDO Koichi, Associate Professor
	Seminar in Synthetic Process Chemistry	Faculty Members in the Research Area
0 111 01 14	Organometallic Chemistry	MIURA Tomoya, Professor
Organometallic Chemistry	Seminar in Organometallic Chemistry	Faculty Members in the Research Area
	The Logic for Organic Synthesis	EMA Tadashi, Professor
Synthetic Organic Chemistry	Mechanisms of Organic Reactions	TAKAISHI Kazuto, Associate Professor
	Seminar in Synthetic Organic Chemistry	Faculty Members in the Research Area
	Chemistry of Biological Reactions	SAKAKURA Akira, Professor
Bioorganic Chemistry	Chemistry of Natural Product Synthesis	MIZOGUCHI Haruki, Associate Professor
	Seminar in Bioorganic Chemistry	Faculty Members in the Research Area
	Organic Electron Transfer Chemistry	KUROBOSHI Manabu, Associate Professor
Heteroatom Chemistry	Seminar in Heteroatom Chemistry	Faculty Members in the Research Area
	Chemistry of Homogeneous Catalysts	OSHIKI Toshiyuki, Senior Assistant Professor
Industrial Catalysis	Seminar in Industrial Catalysis	Faculty Members in the Research Area
	Physical Properties of Polymers	UCHIDA Tetsuya, Associate Professor
Polymeric Materials	Fundamentals of Polymer Solid Materials	OKIHARA Takumi, Senior Assistant Professor
	Seminar in Polymeric Materials	Faculty Members in the Research Area
E & 1W1 1 E	Molecular Technology	NISHINA Yuta, Associate Professor
Functional Molecular Engineering	Seminar in Functional Molecular Engineering	Faculty Members in the Research Area