

# **2024 Admission**

## **International Students Entrance Examination Graduate School of Informatics**

### **Application Guidelines**

Note 1: Common items of all graduate schools are published in separate files. Please check together.

Note 2: The application guidelines is the English Version for Japanese-based Program of the International Students Entrance Examination.

Note 3: The application documents which are designated by Kansai University only have Japanese Version.

**Kansai University  
Graduate School**

## **II Admission Policy**

### **Master's Degree Program**

The Graduate School of Informatics widely accepts those who have the following knowledge and skills, abilities for thinking, judgement, and expression, and proactive attitudes, and are deemed to be “information specialists” as the graduate school students according to the Diploma Policy and the Curriculum Policy for fostering researchers and highly skilled professionals of the Graduate School:

1. To have specialized knowledge and skills obtained in undergraduate and equivalent programs.
2. To have a strong willingness to be a researcher and/or professional provided with rich academic knowledge and advanced research abilities.
3. To have abilities to realize the theory and application of informatics based on the “Think and Act” capabilities in order to contribute to the development of information society.

### **Ph.D. Degree Program**

The Graduate School of Informatics widely accepts those who have the following knowledge and skills, abilities of thinking, judgement, and expression, and proactive attitudes, and are deemed to be “information pioneers” as graduate school students according to the Diploma Policy and Curriculum Policy of the Graduate School in order to foster those challenging the unexplored fields of informatics which is rapidly developing:

1. To have specialized and advanced knowledge and skills in the undergraduate and Master’s degree or its equivalent programs.
2. To have rich academic knowledge and a strong willingness to be researchers through challenging the unexplored fields of informatics.
3. To have potentials as researchers in order to develop new academic fields crossing over the border of human and natural sciences and to create advanced research results.

## **V Application Requirements**

# Graduate School of Informatics (Master's Degree Program)

## Graduate School, Major and Enrollment Capacity

Graduate School	Major	Enrollment Capacity
Graduate School of Informatics	Social Informatics Major	15
	Intelligent Informatics Major	35

Note: The Graduate School of Informatics has not established separate enrollment capacity for each type of entrance examination.

## ■Road to Professional Social Researcher

The Master's Degree Program of the Graduate School of Informatics has been certified by the Japanese Association for Social Research as a graduate school with "Professional Social Researcher Certification Program".

Those who wish to apply for the qualification of "professional social researcher" certified by the Japanese Association for Social Research must meet the following 4 requirements.

- ①Have the Social Researcher Certificate (can apply simultaneously with the certificate of the Professional Social Researcher)
- ②To acquire credits for "Organizational Survey Research Method", "Multivariate Data Analysis Method in Behavioral Science", and "Field Research Methodology" which are the subjects of the Graduate School of Informatics.
- ③Writing research papers (including master's thesis) using the results of social surveys
- ④Complete the Master's Degree Program

For more information, please refer to the website of the Japanese Association for Social Research (<https://jasr.or.jp>).

## Master's Degree Program : International Students Entrance Examination (Spring Enrollment: October Examination and February Examination/Fall Enrollment: July Examination)

### 1. Qualification

Applicants shall satisfy one of the following (1)~(5) conditions:

(including applicants who are expected to satisfy one of the following (1)~(4) conditions before enrolling at the Graduate School)

- (1) Applicants who have completed a regular 16-year program of school education outside Japan (Note 1).
- (2) Applicants who have graduated from Japanese universities as international students.
- (3) Persons who have completed a 3-year program or a program of more than 3 years and have been awarded a degree by an overseas university or school (Note 2) which is recognized as being equivalent to a bachelor's degree.  
(the 2016 ordinance of the Ministry of Education, Culture, Sports, Science and Technology, No. 19)
- (4) Applicants who have completed Specialized Course at Japanese special training schools after the designated date by the minister of MEXT<sup>†</sup> as international students. The training schools must satisfy the conditions designated by MEXT including that the length of term required for graduation be at least four years.  
† MEXT; Japanese Ministry of Education, Culture, Sports, Science and Technology
- (5) Applicants who are recognized as having scholastic abilities equivalent or superior to the graduates of university through Pre-qualification Individual Screening for Entrance Examination of the Graduate School. (This requirement shall not apply to the foreigners who are recognized as having received Japanese regular school education program.)

Note 1: Those enrolled in the following schools are considered to be the same as application qualification (1), as long as the period is less than four years in total.

- Elementary school, junior high school, high school etc. based on Japanese school education law
- Foreign school in Japan
- Overseas educational facilities accredited or designated by the Minister of Education, Culture, Sports, Science and Technology

Note 2: The university or the school shall be evaluated by an organization approved by a relevant official institution in the country for their education and research activities or recognized as so by the Minister of Education, Culture, Sports, Science and Technology.

Applicants who satisfy qualification (1), (3) and (5) above and, in addition to the above conditions, who have obtained Level N1 (Level 1 at 2009) on the Japanese Language Proficiency Test (JLPT) or scored 270 points or higher on the subject of Japanese as a Foreign Language (including the writing score) in the Examination for Japanese University Admission for International Students (EJU) which the valid period specified by the issuing institution of the Examination for Japanese University Admission for International Students (EJU) includes the application start date for the Examination Month.

### **[IMPORTANT]** Notes regarding Pre-qualification Individual Screening for Entrance Examination

1. Subjects:  
Applicants under qualification (5)
2. Application Procedures and Deadline:  
Refer to 'I Check Qualification before Applying' (in the separate file "Common Items of all Graduate Schools" p.1).  
(Note 1) Graduates (or those expected to graduate) from less than 16-years program of school education can also apply. In this case, please contact Takatsuki Office by the submission deadline of the documents for the screening as soon as possible.  
(Note 2) Applicants who have received (or are expected to receive) the degrees in their home countries equivalent to those of Japanese universities can also apply. In this case, please inquire to Takatsuki Office as soon as possible.

**【IMPORTANT】**

Applicants of the Graduate School of Informatics should refer to the 'Graduate school of Informatics: List of Major Subjects and Academic Advisors for 2024 Academic Year (Master's Degree Program)' and contact the supervisor of the directed research course they wish to take before submitting their application.

**2. Application Documents**

After you have paid the application fee of ¥35,000, submit the documents listed below.

Review Cautionary Note published at the end of the Application Guidelines (Japanese Version), and carefully check your application documents before submitting them.

Please submit the 'Application Document List (Checklist)' as well as the application documents.

Document to be Submitted <b>【Document Number】</b>	Remarks
Documents to be submitted by all applicants	
Application Form (for submission) <b>【①】</b>	Print out and submit after finalizing your online application.
Statement of Reason for Applying (in Japanese) <b>【②】</b>	Use the form designated by the University.
Original transcript from previously universities and / or other institutions <b>【③】</b>	<p><b>Submit original transcripts.</b> If you cannot submit original transcripts, please submit transcripts that have been notarized by an embassy or other public institutions.</p> <ul style="list-style-type: none"> <li>◦ If you are currently enrolled, you should submit the latest transcript (original) when applying.</li> <li>◦ If you have transferred from other universities to your current university, you also should submit transcripts (original) from the previous universities and / or other institutions as well.</li> <li>◦ If you studied abroad during your enrollment period and credits have been approved, but the credits are not listed on the academic transcript of the university you are enrolled in, or the credits have not been approved after studying abroad, you also should submit the academic transcript (original) from the university where you studied abroad as well.</li> <li>◦ If you participated in a DD (Dual Degree/Double Degree) program during your enrollment period, but the credits have been approved are not listed on your academic transcript of the university you are enrolled in, or if credits are recognized in a lump sum, you also should submit the transcript (original) from the university where you participated in the program as well.</li> </ul> <p>Note 1) If the certificate has multiple pages, the seal of the university or the signature of the person in charge of issuing the certificate is required on all pages.</p> <p>Note 2) If you did not take any courses during your enrollment period, or if there is a blank period on your transcript due to studying abroad, please prepare a statement of reasons for that period (free format) and submit it together (School seal is not required).</p>

Original certificate of (expected) graduation from previously universities and / or other institutions 【④】	Both of the entrance and (expected) graduation dates must be listed. If the above information is listed on the Application Document ③, this certificate does not need to be submitted. <b>Submit an original certificate of (expected) graduation.</b> If you cannot submit an original certificate, please submit a certificate of (expected) graduation that has been notarized by an embassy or other public institutions. Note) Applicants with Qualification (3) are required to submit a bachelor's degree certificate in addition to the graduation certificate.
Research Plan (in Japanese) 【⑤】	About 1,000 words in length. Use the form designated by the University.
Copy of Residence Card or Passport 【⑪】	For a residence card, submit a copy showing both sides. For a passport, submit a copy of pages showing your name, date of birth, photograph, expiration date, residence status, and the most recent period of stay.
Two Photographs	Affix a photograph taken within the last 3 months to the application form (for submission) and to the statement of reason for applying. Your photographs should not be retouched or edited. (The photograph affixed to your application form will be used on the student ID issued after enrollment, should you be admitted.)
Applicants who are eligible under qualification (1), (3) and (5) above	
Certification for Japanese Language Proficiency 【⑩】	<u>In case of Japanese Language Proficiency Test (JLPT)</u> The original of 'Test Result' or 'Certificate of Result and Score' certifying that you have passed Level N1 (Level 1 of Former Test). ★ Be sure to submit the original. <u>In case of Examination for Japanese University Admission (EJU)</u> The Online Certificate 'Score Confirmation Report' certifying that you have acquired 270 or higher points (including the writing score) in Japanese language as a Foreign Language. Please print out the certificate on A4 paper.

### 3. Screening Method

The Graduate School will determine whether or not to admit applicants based on a comprehensive evaluation of document screening, written examination and oral examination.

### 4. Examination Components

Examination Subjects	Points	Examination Time	Remarks
Written Examination [Specialized Subject]	100	10:00 ~ 11:30	Prepared for each directed research course.
Oral Examination	—	13:00 ~	

English proficiency may be tested in the written examination, in which case dictionary (*Kenkyusha's New College English-Japanese Dictionary 7th Edition* (KENKYUSHA)) will be provided.



Note: The subject and academic advisors may change as needed.

If it changes, we will notify applicants via posting a notice (Japanese Version) on our website, please check our website before applying.

<[https://www.kansai-u.ac.jp/Gr\\_sch/](https://www.kansai-u.ac.jp/Gr_sch/)>

(2023/4)

## Graduate School of Informatics: List of Major Subjects and Academic Advisors for 2024 Academic Year (Master's Degree Program)

<Social Informatics Major>

Directed Research Courses (★)

Research Area	Faculty		
☆Information and Communication Media in Education			
★ICT (Information & Communication Technology) and Educational Innovation	● KUROKAMI, Haruo	Professor	
	● OYANAGI, Wakio	Professor	Ph.D. (Hiroshima University)
	KAWASHIMA, Yuko	Associate Professor	Ph.D. (Tronto University)
☆Information Society and Communications Media			
★Media and Communication Studies	● OKADA, Tomoyuki	Professor	
	● TANIMOTO, Naho	Professor	Ph.D. (Osaka University)
	● SAKAGUCHI, Yusuke	Professor	Ph.D. (Osaka University)
★Psychological Models of Information and Human Behavior	● MORIO, Hiroaki	Professor	Ph.D. (Florida Atlantic University)
	● FURUTANI, Kaichiro	Professor	Ph.D. (Hiroshima University)
	NISHIDA, Koichi	Associate Professor	
☆Industrial Information Systems			
★Value Creation and Collaborative Networks	● SHYI, Shae-Chang *	Professor	
★Value Creation in the Digital Society	● ISADA, Fumihiko	Professor	Ph.D. (Osaka University)
	● KOGA, Hiroshi	Professor	
	● SAITO, Masako	Professor	Ph.D. (Kwansei Gakuin University)
	● TOKUYAMA, Mitsue	Professor	
	● MATSUMOTO, Wataru	Professor	Ph.D. (The University of Tokyo)
	NAKAO, Yuriko	Associate Professor	Ph.D. (Kobe University)
☆Information in the Public Domain			
★Theory and Practice of Databases in the Public Domain	● IZUMI, Katsuyuki	Professor	Ph.D. (Kobe University)
	● ITO, Toshihide *	Professor	Doctor of Engineering (Waseda University)
	● JINUSHI, Toshiki	Professor	Ph.D. (Harvard University)
	● NATORI, Ryota	Professor	
	● OHORI, Shuichi	Professor	Ph.D. (Kyoto University)
	● OTA, Katsunori	Professor	Ph.D. (Kobe University)
	● NAKAMOTO, Yasuhiro	Professor	Ph.D. (Osaka University)
	IKEDA, Shun	Associate Professor	Ph.D. (Kyoto University)
	SONG, Jaehyun	Associate Professor	Ph.D. (Kobe University)
	FUKUSHIMA, Rikihiro	Associate Professor	

<Intelligent Informatics Major>

Directed Research Courses (★)

Research Area	Faculty		
<b>☆Human Computing</b>			
<b>★Human-Computer Interaction: Cognition, Media, and Culture</b>	● TOGIYA, Norio	Professor	Ph.D. (The University of Tokyo)
	● YONEZAWA, Tomoko	Professor	Doctor of Information Science (Nagoya University)
	● UEHARA, Ryou	Professor	Ph.D. (The University of Tokyo)
	● SEJIMA, Yoshihiro	Associate Professor	Doctor of Engineering (Okayama Prefectural University)
	● SASAKI, Kyoshiro	Associate Professor	Ph.D. (Kyushu University)
<b>★Theory and Practice of Interaction Design</b>	● HORI, Masahiro	Professor	Doctor of Engineering (Osaka University)
	● MATSUSHITA, Mitsunori	Professor	Doctor of Engineering (Osaka University)
	● HAYASHI, Takahiro	Professor	Doctor of Engineering (Kanazawa University)
	● YAMANISHI, Ryosuke	Associate Professor	Ph.D. (Nagoya Institute of Technology University)
<b>★Study on Information Expression by Digital Media Technology and Media Art Works.</b>	● HAYASHI, Takefumi	Professor	Doctor of Engineering (Nagoya University)
	● IURA, Takashi	Professor	Ph.D. (Kyoto City University of Arts)
	HASE, Kaihei	Associate Professor	
<b>☆Intelligent Computing</b>			
<b>★Intelligent Computing Applications</b>	● TAKENAKA, Yoichi	Professor	Doctor of Engineering (Osaka University)
	● TANAKA, Shigenori	Professor	Doctor of Engineering (Kansai University)
	● TOMOEDA, Akiyasu	Professor	Doctor of Engineering (The University of Tokyo)
<b>★Mathematical Sciences and Application of Smart Systems Design</b>	● HIROKANE, Michiyuki	Professor	Doctor of Engineering (Hiroshima University)
	● HAYASHI, Isao *	Professor	Doctor of Engineering (Osaka Prefecture University)
	● INOUE, Shinji	Professor	Ph.D. (Tottori University)
	● HORIGUCHI, Yukio	Professor	Ph.D. (Kyoto University)
<b>★Mobile Robotics for Emergence of Social Innovation</b>	● TAGASHIRA, Shigeaki	Professor	Doctor of Engineering (Nara Institute of Science and Technology)
	● OGINO, Masaki	Professor	Doctor of Engineering (Osaka University)
<b>☆Computing Algorithms</b>			
<b>★Computational Methodology for Decision Making</b>	● ASANO, Akira	Professor	Doctor of Engineering (Osaka University)
<b>☆Distributed Computing</b>			
<b>★Multidimensional Research on Communication Network Technologies</b>	● HORII, Yasushi	Professor	Doctor of Engineering (Osaka University)
	● KONNO, Kazuhiro	Professor	Doctor of Science (Tohoku University)
	● KUWAKADO, Hidenori	Professor	Doctor of Engineering (Kobe University)
	● SASABE, Masahiro	Professor	Doctor of Information Science (Osaka University)
	● KOBAYASHI, Takashi	Associate Professor	

Note 1: Research Areas and Directed Research Courses are marked with ☆ and ★ respectively.

Note 2: Supervising faculty are marked with ●, and supervisors marked with \* do not take new students.

## **Graduate School of Informatics: List of Directed Research Course for 2024 Academic Year (Master's Degree Program)**

Supervisors marked with \* do not take new students.

### **[Social Informatics Major]**

#### **ICT (Information & Communication Technology) and Educational Innovation**

KUROKAMI, Haruo (kurokami@kansai-u.ac.jp) OYANAGI, Wakio (oyanagi@kansai-u.ac.jp)

KAWASHIMA, Yuko (y\_kawa@kansai-u.ac.jp)

With the innovative development of information and communication technology, a new world called Society 5.0 is about to be realized. The way and the meaning of communication, the perspective of learning, and learning environment are changing along with that. This project aims to conduct empirical study on the desire condition and systems related to education, and communication.

1. Research on development and assessment of ICT based learning and curriculum.
2. Research on communication strategies and related education in global society.
3. Research on changes in meaning and mechanism of learning, and systems to promote the learning.

#### **Media and Communication Studies**

OKADA, Tomoyuki (okada@kansai-u.ac.jp) TANIMOTO, Naho (tanimoto@kansai-u.ac.jp)

SAKAGUCHI, Yusuke (yusuke@kansai-u.ac.jp)

The advancement of information and communication technologies not only accomplished globalization of communications but also are accelerating radical changes of industries, economy, lifestyles and other social realms. Regarding the signs of formations of new media cultures, this project aims to pursue the following themes:

1. Developments of media and ICT industries.
2. Transformations of culture, communication, or styles of social activities.
3. Researches of media innovations in social history.

#### **Psychological Models of Information and Human Behavior**

MORIO, Hiroaki (hmorio@kansai-u.ac.jp) FURUTANI, Kaichiro (kaichiro@kansai-u.ac.jp)

NISHIDA, Koichi (knishida@kansai-u.ac.jp)

We live a daily life surrounding with a variety of information. This project aims to consider relationship of information and human mental process and to clarify psychologically what information people want to acquire, how they interpret it, how they are influenced with it, and how they exchange it with other people

1. Psychological research for social cognition of information
2. Psychological research for social influence of information
3. Psychological research for self-cognition of information
4. Psychological research for interpersonal communication

## **Value Creation and Collaborative Networks**

\*SHYI, Shae-Chang (shi@res.kutc.kansai-u.ac.jp)

Due to globalization each national economy is increasingly interconnected and interdependent. And due to innovation of ICT business activities are fundamentally changed. This project aims to study formation of 'Collaborative Networks' of information, knowledge and technologies and their mechanism by overcoming zero-sum competition and borders of nations and companies in order to create new value and business and to sophisticate industries based on the theories of Management Information Systems and Networking Management.

## **Value Creation in the Digital Society**

ISADA, Fumihiko (isada@kansai-u.ac.jp) KOGA, Hiroshi (hiroshi@kansai-u.ac.jp)

SAITO, Masako (msaito@kansai-u.ac.jp) TOKUYAMA, Mitsue (toku\_san@kansai-u.ac.jp)

MATSUMOTO, Wataru (matsumo@kansai-u.ac.jp) NAKAO, Yuriko (y-nakao@kansai-u.ac.jp)

Today, modern companies facing environmental changes such as digitalization, globalization, and ecologicalization and changes in social structure are required to undergo organizational change utilizing data and digital technology. In this research project, we will consider such changes as "reorganization of value creation activities" and clarify the issues in realizing them. In particular, we will examine the issues of value creation in the digital society by crossing over various research fields of business administration that contribute to the sustainable improvement of corporate value.

## **Theory and Practice of Databases in the Public Domain**

IZUMI, Katsuyuki (izumi@kansai-u.ac.jp) \*ITO, Toshihide (toshi@kansai-u.ac.jp)

JINUSHI, Toshiki (jinushi@kansai-u.ac.jp) NATORI, Ryota (t000033@kansai-u.ac.jp)

OHORI, Shuichi (ohori@kansai-u.ac.jp) OTA, Katsunori (ohta@kansai-u.ac.jp)

NAKAMOTO, Yasuhiro (nakamoto@kansai-u.ac.jp) IKEDA, Shun (s\_ikeda@kansai-u.ac.jp)

SONG, Jaehyun (song@kansai-u.ac.jp) FUKUSHIMA, Rikihiro (fukusima@kansai-u.ac.jp)

To solve public problems, we need to grasp the current situation accurately and clarify the causes by using appropriate research methods.

Therefore, as the primary purpose of this project, we clarify the actual situation by using various data sources such as official statistics, social surveys and documentary information from White Papers and ordinances and so on. Then our project uses numerous analytical approaches; for example, statistical analysis, computational simulation, mathematical analysis and qualitative analysis. For the secondary purpose, we gather and process outlying data and investigate ways of storing them in the database. By following these two approaches, this project analyses socially unsolved issues.

## **[Intelligent Informatics Major]**

### **Human-Computer Interaction: Cognition, Media, and Culture**

TOGIYA, Norio(ntogiya@kansai-u.ac.jp) YONEZAWA, Tomoko(yone@kansai-u.ac.jp)

UEHARA, Ryou(uehara@kansai-u.ac.jp) SEJIMA, Yoshihiro(sejima@kansai-u.ac.jp)

SASAKI, Kyoshiro(k-ssk@kansai-u.ac.jp)

We widely and multi-directionally study human-computer interaction (HCI) and computer-mediated communication (CMC) from cognitive science, media-science, philosophical, cultural, and historical perspectives. Our research approach includes empirical investigation, theoretical examination, and practical system implementation and evaluation. Through these studies, our project also addresses socio-cultural issues such as technology standardization and ethics in HCI and CMC.

### **Theory and Practice of Interaction Design**

HORI, Masahiro(horim@kansai-u.ac.jp) MATSUSHITA, Mitsunori(m\_mat@kansai-u.ac.jp)

HAYASHI, Takahiro(t.haya@kansai-u.ac.jp) YAMANISHI, Ryosuke(ryama@kansai-u.ac.jp)

From the perspective of knowledge-information processing, this project aims to realize well-organized interactive systems, environments, and services on the basis of human-computer interaction and human communication that occurs through the use of electronic devices. To achieve this goal, studies involve the development of practical applications as well as the construction of radical theories in the field. Graduate students in this project need to have strong interest in either modeling human information processing, designing interactive environments, or evaluating user experience.

### **Study on Information Expression by Digital Media Technology and Media Art Works.**

HAYASHI, Takefumi(haya@kansai-u.ac.jp) IURA, Takashi(iura@kansai-u.ac.jp)

HASE, Kaihei(hase@kansai-u.ac.jp)

This project aims to clarify better ways of expressions in information content. Through the construction and evaluation of information content with digital media technology and art, such as visualization, auralization, production of video and media art works, understanding and utilizing subjective information processing mechanisms are performed, and optimal information expression are realized based on it. Related topics include auditory and visual information processing, music and video theory, installations, human-computer interaction, projection mapping, virtual reality, and more.

### **Intelligent Computing Applications**

TAKENAKA, Yoichi(takenaka@kansai-u.ac.jp) TANAKA, Shigenori(stanaka@kansai-u.ac.jp)

TOMOEDA, Akiyasu(tomoeda@kansai-u.ac.jp)

This project aims to learn basic intelligent computing theories such as machine learning, neural network, genetic algorithm, evolutionary computation, artificial life, data mining, data science, and others, and to research the measure for application. Application fields are control, landscape design, damage analysis, maintenance, vibration control, disaster prevention planning, geospatial information, image processing, web related technologies, document processing, scheduling, visual information processing, sports information processing, genetic analysis, software reliability and so on.

### **Mathematical Sciences and Applications of Smart Systems Design**

HIROKANE, Michiyuki(hirokane@kansai-u.ac.jp) \*HAYASHI, Isao(ihaya@kansai-u.ac.jp)

INOUE, Shinji(ino@kansai-u.ac.jp) HORIGUCHI, Yukio(yhorig@kansai-u.ac.jp)

This project aims to research on mathematical sciences and applications of smart systems design that realizes comfortable, safe, and secure "smart society" based on intelligent computing technology. Our research interests include (1) Soft computing and AI models for intelligent information processing to realize the smart society with high levels of comfort, enjoyment, flexibility and efficiency (2) Probability and Statistical models for evaluating the reliability and safety of smart systems, and (3) Their practical applications.

### **Mobile Robotics for Emergence of Social Innovation**

TAGASHIRA, Shigeaki(shige@kansai-u.ac.jp) OGINO, Masaki(ogino@kansai-u.ac.jp)

In this project, we focus on the creation of new value for future mobile robotics, such as augmented ability, massive parallel and distributed operations, and immersive experience sharing. In addition, we aim to realize social implementations of mobile robots in manufacturing, medical, service, crime prevention, and disaster reduction fields, and to analyze the problems towards such implementations in these fields from multiple perspectives including technology, cognition, ethics, and economics.

### **Computational Methodology for Decision Making**

ASANO, Akira(a.asamo@kansai-u.ac.jp)

Human factors should be considered in computational methodologies in order to support decision making using computers, for example, user interfaces and presentations of selections considering human perceptual abilities and characteristics. In this project, we research and develop computational methodologies considering the human factors. Specifically, our project includes following theme (but is not limited to): methods of supporting smooth comprehension considering human perceptual abilities through the research of human color and object recognition.

### **Multidimensional Research on Communication Network Technologies**

HORII, Yasushi(horii@kansai-u.ac.jp) KONNO, Kazuhiro(k.konno@kansai-u.ac.jp)

KUWAKADO, Hidenori(kuwakado@kansai-u.ac.jp) SASABE, Masahiro(sasabe@kansai-u.ac.jp)

KOBAYASHI, Takashi(taka-k@kansai-u.ac.jp)

The progress of various network devices is changing our everyday life significantly. The aim of this subject is to make our life more comfortable using communication network technologies from multidimensional perspectives, that is, from the physical layer to the application layer. A major research area of this subject involves (i) network application technology and information sensing technology, (ii) cryptography and information security, (iii) methodology for the network security and for the efficient use of network resources, (iv) biological information processing technology for development of new functional devices.

# Extended Enrollment System

In order to better meet the diverse needs of enrollees and expand opportunities for graduate-level learning and research, the Graduate Schools of Law, Letters, Informatics, Foreign Language Education and Research, Psychology (Psychology Major), East Asian Cultures, Governance, Health and Well-being offer a three-year course, in addition to the standard two-year Master's Degree Program. This program offers the following characteristics.

## (1) Annual Course Credit Limits

Under this program the limit of annual credit is as follows:

**【Graduate Schools of Law, Informatics, Psychology (Psychology Major), Governance】**

Course	First Year	Second Year	Third Year
Two-year Course	28	28	—
Three-year Course	20	20	16

**【Graduate Schools of Letters, Foreign Language Education and Research, East Asian Cultures, Health and Well-being】**

Course	First Year	Second Year	Third Year
Two-year Course	30	30	—
Three-year Course	20	20	20

## (2) Assignment of Classes by Year for the Three-year Course

Graduate School of Law	Seminar (1)A and (1)B, a major subject in the Legal and Political Studies Course is assigned to first- and second-year students. Seminar (2)A and (2)B is assigned to third-year students. Seminar in the High-quality Professional Research Course is assigned to third-year students.
Graduate School of Letters	Seminar (1)A and (1)B, a research guidance class for their master's thesis is assigned to first-year students. Seminar (2)A and (2)B is assigned to third-year students. The master's thesis is submittal in the third-year.
Graduate School of Informatics	A research guidance class for students' master's thesis is assigned to third-year students. Submission of master's thesis is in the third-year.
Graduate School of Foreign Language Education and Research	The classes taught by the student's faculty advisor as well as the Master's Degree Program Seminars 1a and 1b are assigned to first-year students. Master's Program Seminars 2a and 2b are assigned to third-year students.
Graduate School of Psychology (Psychology Major)	Seminar of Psychology (1)A and (1)B is assigned to first-year students, while Seminar of Psychology (2)A and (2)B is assigned to third-year students. Submission of master's thesis is in the third-year.
Graduate School of East Asian Cultures	Seminar (1)A and (1)B, a research guidance class for their master's thesis is assigned to first-year students. Seminar (2)A and (2)B is assigned to third-year students. The master's thesis is submittal in the third-year.
Graduate School of Governance	Seminar of Governance I and II is assigned to first-year students, while Seminar of Governance III and IV, a research guidance class that focuses on a specific topic, is assigned to third-year students. Submission of master's thesis or a report on a specific theme of research is in the third-year.
Graduate School of Health and Well-being	Seminar of Health and Well-being (1)A and (1)B, a research guidance class for their master's thesis is assigned to first-year students. Seminar of Health and Well-being (2)A and (2)B is assigned to third-year students. The master's thesis is submittal in the third-year.

## (3) Changing Courses after Enrollment

At the time enrollees become second-year students, they can request to switch from the three-year course to the two-year course if they satisfy the following conditions as designated by each Graduate School. If they do so, at the Graduate Schools of Law, Informatics, Psychology (Psychology Major), Governance, the course limit

of their second-year will be 28 credits, and at the Graduate Schools of Letters, Foreign Language Education and Research, East Asian Cultures, Health and Well-being, the course limit of their second-year will be 30 credits.

Eligible students will be notified during the fall semester of their first-year (Enrollees from the fall semester: spring semester of their first-year) by the University’s Information System. Please note that it is impossible to switch from the two-year course to the three-year course.

Graduate School of Law	The student must have earned 20 credits, which is the requirement for submitting a master’s thesis, as of the end of his or her first-year.
Graduate School of Letters	
Graduate School of Foreign Language Education and Research	
Graduate School of Psychology (Psychology Major)	
Graduate School of East Asian Cultures	
Graduate School of Health and Well-being	The student must have earned 16 credits, which is the requirement for submitting a master’s thesis, as of the end of his or her first-year.
Graduate School of Informatics	
Graduate School of Governance	The student must have earned 20 credits, which is the requirement for submitting a master’s thesis or a report on a specific theme of research, as of the end of his or her first-year.

**(4) Limit of Years Enrolled**

Limit of years enrolled for both the two-year course and three-year course is 4 years.

**(5) Graduation Requirements**

The graduate requirements are the same for both the two-year and three-year courses. Students enrolled in the three-year course shall take three years to complete the same requirements as students enrolled in the two-year course. For more information, see the “Graduate School Guidelines,” which you will receive at the time of enrollment.

**(6) School Fees**

As for School fees, refer to ‘8 School Fees and Other Fees for 2024’ (in the separate file “Common Items of all Graduate Schools” pp.20-26).

If you change your attendance period of the Graduate School in the course of study, you must also pay the tuition of the 3rd grade at the beginning of the 2nd grade.

(Confirm the exact amount of the school fees and other fees to pay when you take the changing procedures.)

If you wish to apply for the three-year course under the Extended Enrollment System, select “Three-year Course” for the “Extended Enrollment” field on the Online Application. Your selection of either course will have no effect on the admission decision.

If you wish to switch courses after being admitted, inform the Graduate School Admissions Division by Spring enrollment: January 12 (Fri), 2024, Fall enrollment: July 26 (Fri), 2024.

Please note that applicants admitted under the University’s February Examination are not able to switch courses prior to their enrollment.



# Graduate School of Informatics (Ph.D. Degree Program)

Graduate School, Major and Enrollment Capacity

Graduate School	Major	Enrollment Capacity
Graduate School of Informatics	Informatics Major	8

Note: The Graduate School of Informatics has not established separate enrollment capacity for each type of entrance examination.

## **Ph.D. Degree Program: International Students Entrance Examination (Spring Enrollment: October Examination and February Examination/Fall Enrollment: July Examination)**

### **1. Qualification**

Applicants shall satisfy one of the following (1)~(5) conditions:

(including applicants who are expected to satisfy one of the following (1)~(3) conditions before enrolling at the Graduate School)

- (1) Applicants who have received a master's or professional degree at the graduate schools outside Japan.
- (2) Applicants who have received a master's or professional degree from Japanese graduate schools as international students.
- (3) Applicants who have completed programs and received degrees equivalent to a master's degree from the United Nations University\*.

\*United Nations University; established by the resolution of the General Assembly of the United Nations on December 11, 1972, as stipulated in Article 1 Paragraph 2 of the Act on Special Measures incidental to Enforcement of the Agreement between the United Nations and Japan regarding the Headquarters of the United Nations University.

- (4) Applicants designated by the minister of MEXT<sup>†</sup>. (Bulletin No. 118 of 1989)  
<sup>†</sup>MEXT; Japanese Ministry of Education, Culture, Sports, Science and Technology
- (5) Applicants who are recognized as having degrees equivalent or superior to a master's degree by our graduate school and have reached the age of 24 (before enrolling at the Graduate School). This requirement shall not apply to the foreigners who are recognized as having received Japanese regular school education program.

Applicants who satisfy qualification (1), (4) or (5) above and, in addition to the above conditions, who have obtained Level N1 (Level 1 at 2009) on the Japanese Language Proficiency Test (JLPT) or scored 270 points or higher on the subject of Japanese as a Foreign Language (including the writing score) in the Examination for Japanese University Admission for International Students (EJU) which the valid period specified by the issuing institution of the Examination for Japanese University Admission for International Students (EJU) includes the application start date for the Examination Month.

### **[IMPORTANT]** Notes regarding Pre-qualification Individual Screening for Entrance Examination

1. Subjects:  
Applicants under qualification (4) or (5)
2. Application Procedures and Deadline:  
Refer to 'I Check Qualification before Applying' (in the separate file "Common Items of all Graduate Schools" p.1)

### **[IMPORTANT]**

Applicants of the Graduate School of Informatics should refer to 'Graduate school of Informatics: List of Major subjects and Academic Advisors for 2024 Academic Year (Ph.D. Degree Program)' contact the supervisor faculty of the directed research field they wish to take before submitting their application.

## 2. Application Documents

After you have paid the application fee of ¥35,000, submit the documents listed below.

Review [Cautionary Note](#) published at the end of the Application Guidelines (Japanese Version), and carefully check your application documents before submitting them.

Please submit the 'Application Document List (Checklist)' as well as the application documents.

Document to be Submitted [Document Number]	Remarks
Documents to be submitted by all applicants	
Application Form (for submission) 【①】	Print out and submit after finalizing your online application.
Statement of Reason for Applying (in Japanese) 【②】	Use the form designated by the University.
Original transcript from previously graduate school 【③】	<p><b>Submit original transcripts.</b> If you cannot submit original transcripts, please submit transcripts that have been notarized by an embassy or other public institutions.</p> <ul style="list-style-type: none"> <li>◦ If you are currently enrolled, you should submit the latest transcript (original) when applying.</li> <li>◦ If you studied abroad during your enrollment period and credits have been approved, but the credits are not listed on the academic transcript of the graduate school you are enrolled in, or the credits have not been approved after studying abroad, you also should submit the academic transcript (original) from the graduate school where you studied abroad as well.</li> <li>◦ If you participated in a DD (Dual Degree/Double Degree) program during your enrollment period, but the credits have been approved are not listed on your academic transcript of the graduate school you are enrolled in, or if credits are recognized in a lump sum, you also should submit the transcript (original) from the graduate school where you participated in the program as well.</li> </ul> <p>Note 1) If the certificate has multiple pages, the seal of the university or the signature of the person in charge of issuing the certificate is required on all pages.</p> <p>Note 2) If you did not take any courses during your enrollment period, or if there is a blank period on your transcript due to studying abroad, please prepare a statement of reasons for that period (free format) and submit it together (School seal is not required).</p>
Original certificate of (expected) completion from previously attended graduate school, or a notarized document certifying (expected) completion 【④】	<p>Both of the entrance and (expected) completion dates must be listed.</p> <p>If the above information is listed on the Application Document ③, this certificate does not need to be submitted.</p> <p><b>Submit an original certificate of (expected) completion.</b> If you cannot submit an original certificate, please submit a certificate of (expected) completion that has been notarized by an embassy or other public institutions.</p>
Research Plan (in Japanese) 【⑤】	<p>About 1,000 words in length.</p> <p>Use the form designated by the University.</p>

Copy of Residence Card or Passport 【⑪】	For a residence card, submit a copy showing both sides. For a passport, submit a copy of pages showing your name, date of birth, photograph, expiration date, residence status, and the most recent period of stay.				
Two Photographs	Affix a photograph taken within the last 3 months to the application form (for submission) and to the statement of reason for applying. Your photographs should not be retouched or edited. (The photograph affixed to your application form will be used on the student ID issued after enrollment, should you be admitted.)				
Applicants who are eligible under qualification (1), (4) and (5) above					
Certification for Japanese Language Proficiency 【⑩】	<table border="1"> <tr> <td>In case of Japanese Language Proficiency Test (JLPT)</td> </tr> <tr> <td>The original of 'Test Result' or 'Certificate of Result and Score' certifying that you have passed Level N1 (Level 1 of Former Test). ★ Be sure to submit the original.</td> </tr> <tr> <td>In case of Examination for Japanese University Admission (EJU)</td> </tr> <tr> <td>The Online Certificate 'Score Confirmation Report' certifying that you have acquired 270 or higher points (including the writing score) in Japanese language as a Foreign Language. Please print out the certificate on A4 paper.</td> </tr> </table>	In case of Japanese Language Proficiency Test (JLPT)	The original of 'Test Result' or 'Certificate of Result and Score' certifying that you have passed Level N1 (Level 1 of Former Test). ★ Be sure to submit the original.	In case of Examination for Japanese University Admission (EJU)	The Online Certificate 'Score Confirmation Report' certifying that you have acquired 270 or higher points (including the writing score) in Japanese language as a Foreign Language. Please print out the certificate on A4 paper.
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In case of Examination for Japanese University Admission (EJU)					
The Online Certificate 'Score Confirmation Report' certifying that you have acquired 270 or higher points (including the writing score) in Japanese language as a Foreign Language. Please print out the certificate on A4 paper.					

### 3. Screening Method

The Graduate School will determine whether or not to admit applicants based on a comprehensive evaluation of document screening, written examination and oral examination.

### 4. Examination Components

Examination Subjects		Points	Examination Time	Remarks
Written examination	Specialized Subject	100	10:00 ~ 11:30	Prepared for each research field.
	English	100	13:00 ~ 14:30	Allow to refer to a dictionary provided by the University ( <i>Kenkyusha's New College English-Japanese Dictionary, 7th Edition</i> (KENKYUUSHA)) for the English questions
Oral Examination		—	15:00 ~	

Note: The subject and academic advisors may change as needed.

If it changes, we will notify applicants via posting a notice (Japanese Version) on our website, please check our website before applying.

<[https://www.kansai-u.ac.jp/Gr\\_sch/](https://www.kansai-u.ac.jp/Gr_sch/)>

(2023/4)

## Graduate School of Informatics: List of Major Subjects and Academic Advisors for 2024 Academic Year (Ph.D. Degree Program)

### <Informatics Major>

Research Field		Faculty
<b>★Advanced Information Systems</b>		
Microwave Devices for Wireless Data Communications	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●HORII, Yasushi Professor Doctor of Engineering (Osaka University)
Information Security and its Analysis	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●KUWAKADO, Hidenori Professor Doctor of Engineering (Kobe University)
Mobile Information and Communication System	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●TAGASHIRA, Shigeaki Professor Doctor of Engineering (Nara Institute of Science and Technology)
Advanced Information Networking	LectureA LectureB	SASABE, Masahiro Professor Doctor of Information Science (Osaka University)
<b>★Applied Soft Computing</b>		
Intelligent Information System for Computational Brain	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●HAYASHI, Isao Professor Doctor of Engineering (Osaka Prefecture University)
Practical Engineering of Soft Computing	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●TANAKA, Shigenori Professor Doctor of Engineering (Kansai University)
Visual Information Processing in Soft Computing	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●ASANO, Akira Professor Doctor of Engineering (Osaka University)
Application of Soft Computing to Sensing	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●HIROKANE, Michiyuki Professor Doctor of Engineering (Hiroshima University)
Application of Soft Computing to Earth and Planetary Science	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●ITO, Toshihide Professor Doctor of Engineering (Waseda University)
Advanced Study on Mathematical Modeling and Analysis	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●TOMOEDA, Akiyasu Professor Ph.D. (The University of Tokyo)
Bioinformatics and Systems Biology	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●TAKENAKA, Youichi Professor Doctor of Engineering (Osaka University)
Reliability and Availability Mathematics	LectureA LectureB	INOUE, Shinji Professor Ph.D. (Tottori University)
Intelligent Systems Design	LectureA LectureB	HORIGUCHI, Yukio Professor Ph.D. (Kyoto University)
<b>★Cognitive Information Processing</b>		
Advanced Topics in User Centered Design	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●HORI, Masahiro Professor Doctor of Engineering (Osaka University)
Visual Perception and Cognition	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●HAYASHI, Takefumi Professor Doctor of Engineering (Nagoya University)
Interaction Design	Lecture A Lecture B Seminar 1 Seminar 2 Seminar 3	●MATSUSHITA, Mitsunori Professor Doctor of Engineering (Osaka University)

Visual Materials		Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●TOGIYA, Norio Professor Ph.D. (The University of Tokyo)
Human Information Science		Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●HAYASHI, Takahiro Professor Doctor of Engineering (Kanazawa University)
Virtual Communication Media Science		Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●YONEZAWA, Tomoko Professor Doctor of Information Science (Nagoya University)
Foundations of Science and Technology		Lecture A	Lecture B	UEHARA, Ryou Professor Ph.D. (The University of Tokyo)
Content-oriented Computational Science		LectureA	LectureB	YAMANISHI, Ryosuke Associate Professor Ph.D. (Nagoya Institute of Technology University)
Research Field			Faculty	
<b>★Decision-Making</b>				
Decision Support	Algebraic Geometry and Applications	Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●KONNO, Kazuhiro Professor Doctor of Science (Tohoku University)
	Knowledge Management	Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●KOGA, Hiroshi Professor
	Information and Business Management	Lecture A	Lecture B	SHYI, Shae-Chang Professor
	Survey Methodology	Lecture A	Lecture B	MATSUMOTO, Wataru Professor Ph.D. (The University of Tokyo)
Social Decision-Making	International Corporate Strategy	Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●ISADA, Fumihiko Professor Ph.D. (Osaka University)
	Special Course on Accounting	Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●SAITO, Masako Professor Ph.D. (Kwansei Gakuin University)
	Monetary Policy	Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●JINUSHI, Toshiki Professor Ph.D. (Harvard University)
	Problems of Environment Economic	Lecture A	Lecture B	OHORI, Shuichi Professor Ph.D. (Kyoto University)
	Japanese Politics and Government	Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●NATORI, Ryota Professor
	Special Study of Intellectual Property Law	Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●IZUMI, Katsuyuki Professor Ph.D. (Kobe University)
<b>★Multimodal Communication</b>				
Learning Environment Design	Media Mix and Teaching-Learning Process	Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●KUROKAMI, Haruo Professor
	Digital Technology and Innovative Learning	Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●OYANAGI, Wakio Professor Ph.D. (Hiroshima University)
Studies on Communication Environment	Psychology of the Internet	Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●MORIO, Hiroaki Professor Ph.D. (Florida Atlantic University)
	Cultural Sociology	Lecture A Seminar 1 Seminar 3	Lecture B Seminar 2	●TANIMOTO, Naho Professor Ph.D. (Osaka University)
	Mediated Communications	Lecture A	Lecture B	OKADA, Tomoyuki Professor

Note 1: Research Fields are marked with ★.

Note 2: In “Intended Research Field” of the application form, indicate your intended research field selected from the 5 research fields marked with ★.

Note 3: Supervising faculty are marked with ●, and supervisors marked with \* do not take new students.