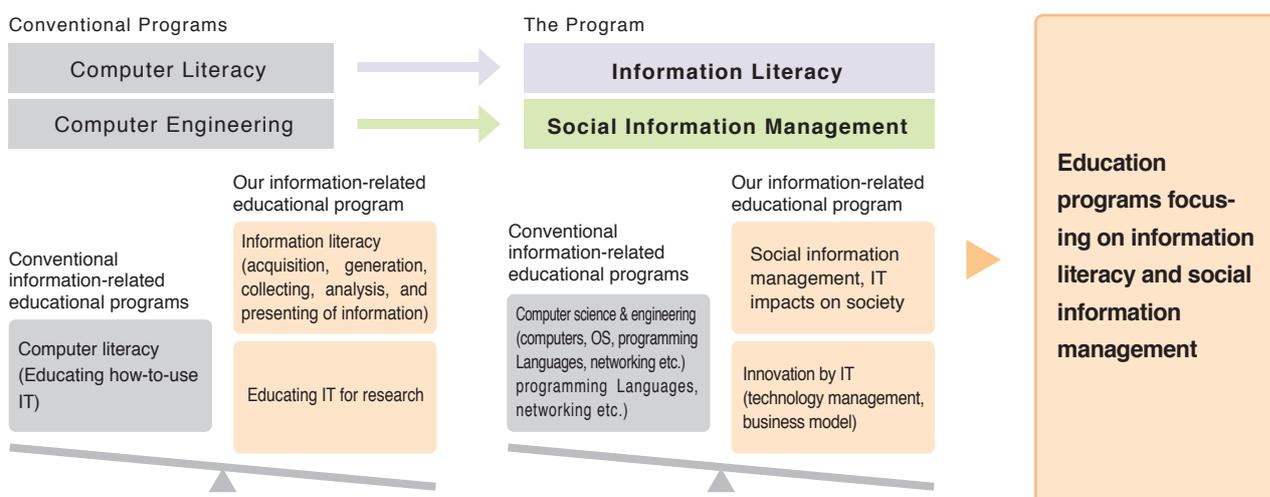


Advanced Information-Related Education & Digital Education Infrastructure Unit (Center for the Promotion of Interdisciplinary Education and Research (C-PiER))

The Advanced Information-Related Education & Digital Education Infrastructure Unit was established in Kyoto University C-PiER to implement the budget request project: Fostering Global Human Resources by Innovating Undergraduate/Graduate-level Information-related

Education & Digitized Education of the graduate school of informatics, Kyoto University. The unit develops and provides an innovative information-related educational program and digitized education environment such as active-learning classrooms and online lectures.

Innovative Educational Programs



Digitized Education Environment

BYOD Classroom Learning

- Usage of tablets & note PCs in usual classrooms
- Active learning classrooms



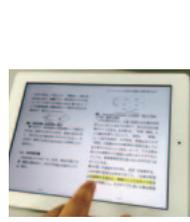
Conventional classroom learning



Learning using tablets
Active learning

Online Lectures and Digital Textbooks

- Digital Textbooks (Japanese and English)
- Online Lectures (MOOC)



Digital textbooks under development



Online Lectures



Faculties

 **TANAKA Katsumi**
Professor
Graduate School of Informatics

 **EBARA Yasuo**
Assoc. Professor
Academic Center for Computing and Media Studies

 **ASANO Yasuhito**
Assoc. Professor
Graduate School of Informatics

 **OHSHIMA Hiroaki**
Assoc. Professor
Graduate School of Informatics

 **KIMURA Kinji**
Assoc. Professor
Graduate School of Informatics

 **KATO Makoto**
Assist. Professor
Graduate School of Informatics

 **MAEGAWA Yoshikazu**
Assoc. Professor
Graduate School of Management

 **SEKIDA Hiroto**
Assist. Professor
Graduate School of Informatics

Courses

[Liberal Arts Courses]

- Fundamentals of Informatics
- Fundamentals of Information Media
- Introduction to Data Analysis
- Fundamentals & Practice of Informatics
- Practice of Data Analysis
- Information and Society
- Introduction to Information & Intellectual Property
- Innovation and Information
- Information and Enterprises

[Graduate Courses]

- Information Analysis and Management
- Practice of Information Analysis & Management
- Media Information Processing
- Service Modeling
- Computation Science for Big Data
- Introduction to Computational Science
- Information and Intellectual Property
- Practice of Computational Science A
- Practice of Computational Science B

Contact

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Kyoto University Collaborative Graduate Program in Design

To respond to the complex needs of our modern society, Kyoto University Collaborative Graduate Program in Design is Japan's first program featuring an integrated, five-year curriculum for "Design" which seeks solutions by calling on knowledge from a variety of academic disciplines. This program aims at cultivating students who deepen their expertise in their own disciplines while working together with specialists in other disciplines as well as with stakeholders to deal with society's variegated issues and create a new structure for the society of tomorrow.

Students enrolled in this program conduct their studies around the six core disciplines of informatics, mechanical engineering, architecture, management, psychology, and the arts (in cooperation with the Kyoto City University of Arts) while also engaging in a variety of training and field work aimed at acquiring the ability to design society. In order to participate in the program, a student must first be admitted into one of the five departments in the Graduate School of Informatics: Department of Intelligence Science and Technology, Department of Social Informatics, Department of Applied Mathematics and Physics, Department of Systems Science, and Department of Communications and Computer Engineering, and then can be considered for selection as a Preparatory Course student and Regular student in this program. Upon completing the program, students of the Doctorate Program of Graduate School of Informatics will earn either a Doctorate degree (Ph.D.) or a Doctoral Degree in informatics. As for the latter degree, certificate of the completion of the Program for Leading Graduate Schools 'Collaborative Graduate Program in Design' is specified in the diploma.

International Course Program in Graduate School of Informatics

Kyoto University was designated as one of the 13 hub universities for the "Project for Establishing Core Universities for Internationalization (Global 30)," which was launched in 2009 by the Ministry of Education, Culture, Sports, Science and Technology. In the initial phase of this project, participating universities were called upon to provide quality education according to their respective functions and to create an environment that makes it easier for foreign students to study in Japan. The G30 program was coordinated within Kyoto University and across all its participating graduate schools by the KU Profile Program.

As an ongoing result of the G30 initiative, we have simplified entrance procedures for foreign students and set up the International Course Program in the Departments of Intelligence Science and Technology, Social Informatics, and Communications and Computer Engineering of the Graduate School of Informatics. To be admitted in these depart-

Participant Organizations

Graduate School of Education (Division of Educational Studies), Graduate School of Engineering (Department of Architecture and Architectural Engineering, Department of Mechanical Engineering and Science, Department of Micro Engineering, and Department of Aeronautics and Astronautics), Graduate School of Informatics (Department of Intelligence Science and Technology, Department of Social Informatics, Department of Applied Mathematics and Physics, Department of Systems Science, and Department of Communications and Computer Engineering), and Graduate School of Management (Department of Business Administration, Department of Management Science)

Partner Organizations

Kyoto City University of Arts, NEC Corporation, Nippon Telegraph and Telephone Corporation (NTT), Ernst & Young Institute Co., Ltd., Panasonic Corporation, Mitsubishi Electric Corporation, and about 60 members in Design Innovation Consortium (Osaka Gas Co., Ltd., OMRON Corporation, Kawasaki Heavy Industries Ltd., Sony Corporation, Toshiba Corporation, Daikin Industries Ltd., Takenaka Corporation, Toray Industries Inc., Nippon Telegraph and Telephone West Corporation (NTT WEST), Nomura Research Institute, HAKUHODO Inc., Yokogawa Electric Corporation, etc.)

- Website : <http://www.design.kyoto-u.ac.jp>
- E-mail : contact@design.kyoto-u.ac.jp

ments, applicants can now take the entrance examination in English. Within those departments, a wide variety of courses are now taught in English.

Thanks to this, students willing to acquire Kyoto University Master and Doctoral degrees can do so using only English. Note that the International Courses Program is open both to Japanese and foreign students, regardless of nationality.

- International Courses website :
<http://www.g30.i.kyoto-u.ac.jp/>
- Contact : jyoho-kyomu@mail2.adm.kyoto-u.ac.jp
(Student Affairs Division)

Academic Programs

The Graduate School of Informatics provides graduate study programs that lead to Master's and Doctoral degrees. Taking into account the many different aspects of Informatics, students are required to take several compulsory credits outside their own department as a way to encourage interdepartmental education.

■ Requirements for the Master's Program

To receive a Master's Degree, every student is required to earn at least 30 credits from the courses specified by the departments; to receive the appropriate instructions through the classes; and to pass the course examinations and the assessment of Master's thesis. To encourage a well-rounded curriculum of study, students are asked to take subjects offered not only by one's own department but by other departments as well.

■ Requirements for the Doctoral Program

A Doctoral degree requires original, high-quality research in an individual field. To receive a Doctoral Degree, students are required to earn at least 6 credits from the courses specified by the departments; to receive the appropriate instructions through the classes; and to pass the course examinations and the assessment of Doctoral thesis.

■ Entrance Examination

The academic year begins in April. In general, a Master's degree requires two academic years of study, and a Doctoral degree three years. Admission to graduate programs is granted to those individuals who have passed the entrance examination of the Graduate School of Informatics conducted by the relevant departments. The examination is held in July and August. Supplementary examinations may be held in December and February.

Applications for the International Course, in which the degree will be earned in a solely English language medium, are also accepted in the departments of Intelligence Science and Technology; Social Informatics; Communications and Computer Engineering.

■ The Number of Students to be Admitted by Department

	Master's Program	Doctoral Program
Department of Intelligence Science and Technology	37	15
Department of Social Informatics	36	14
Department of Applied Analysis and Complex Dynamical Systems	20	6
Department of Applied Mathematics and Physics	22	6
Department of Systems Science	32	8
Department of Communications and Computer Engineering	42	11
Total	189	60

Both non-Japanese and working professionals are eligible for admission into the graduate program. Students may enroll in this graduate school concurrently with their professional responsibilities.

■ For further information, please contact:

Graduate School of Informatics
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Kyoto 606-8501 JAPAN
Tel. +81 75-753-4894,5500
<http://www.i.kyoto-u.ac.jp>

Definition of Informatics

Informatics in Kyoto University is the study of information in natural and artificial systems.

Informatics studies the creation, recognition, representation, collection, organization, optimization, transformation, communication, evaluation and control of information in complex and dynamic systems.

Informatics has human, social, cognitive, biological, linguistic, computational, mathematical and engineering aspects. It includes systems science and communications engineering.

Informatics has close relations with a number of disciplines in the natural and human sciences.

It is developed employing contributions from many different areas. In turn, it can contribute to their further development.

Interfaces to human and social areas, mathematical modeling and information systems are the three pillars of Informatics in Kyoto University.



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