

This document is a translation from the official Japanese version.

2015

University of Tokyo Graduate School of Information Science and Technology

Department of Information Physics and Computing

Master's Program

Doctoral Program

Guide to Entrance Examinations

Contact [Department Administration Office]

7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656

University of Tokyo Graduate School of Engineering / Information  
Science and Technology Administrative Group

Department administration office (Department of Information  
Physics and Computing)

TEL: 03-5841-6888

Internet Guide to Entrance Examinations:

Links to “Guides to Entrance Examinations” for each Department can be found under  
“Entrance Examinations and Admissions” on the following web page:

<http://www.i.u-tokyo.ac.jp/>

In addition to this pamphlet, please be sure to review the application guidelines for the  
Graduate School of Information Science and Technology.

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## I. Master's Program

Based on the interdisciplinary nature of the Department of Information Physics and Computing, this Department seeks applicants from a wide range of fields, both inside and outside the University of Tokyo, with a fundamental understanding and knowledge of mechanics, electricity, physics, mathematics, and information. Examination subjects have been selected to ensure that applicants from diverse disciplines who are not students of the University of Tokyo can take the Examinations under conditions that are fair to all, with no priority or advantages offered to persons already registered at the University of Tokyo.

### A. Preference Card

Fill in all boxes to the right of the names of the Faculty Advisors listed on the Preference Card (for Master's Program) enclosed with this Guide, using numbers to order the preference or an 'X' if not preferred. When indicating your preferred field, please write a detailed description being as specific as possible. Your application will be rejected if you do not fall under the supervision of any of the particular Faculty Advisors you numbered. Submit the Preference Card together with the other application documents.

### B. Examination Schedules

#### 1. Regular education subjects

Examination Date	Location	Examination Time	Examination Subject
August 18, 2014 (Monday)	School of Engineering Bldg. No. 6	10:00 – 12:30	Mathematics

Details on the Examination location will be posted on the bulletin board at the main entrance to Bldg. No. 6 of the School of Engineering at 9:00 a.m. on the day of the Examination.

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TOEFL scores will be used to determine English ability. No written English Examination will be administered. For details, refer to “Guidelines for Submission of TOEFL Test Scores; Graduate School of Information Science and Technology, the University of Tokyo (2015),” which is enclosed in the School Application Guidelines.

## 2. Specialized subjects

### a) Written Examination

For Examinations on Specialized Subjects, students shall choose one subject from among the following: “Information Physics and Computing”, “Mathematical Informatics”, “Computer Science”, and “Information and Communication Engineering”.

Please note that dates, times, and locations differ depending on the subject.

Specialized Subjects	Examination Dates, Times, and Locations	Scope of Questions
Information Physics and Computing	August 19, 2014 (Tuesday) 10:00 – 13:00 School of Engineering Bldg. No. 6	Students will be required to solve three of six problems selected from the fields of: “signal processing”, “electronic circuits”, “control”, “computer systems*”, “dynamics”, and “electromagnetics/wave propagation” *Problems from the field of “computer systems” will be related to logic circuits, computer architecture, and relevant algorithms.
Mathematical Informatics	Please refer to the “Guide to Department Entrance Examinations” for the Department of Mathematical Informatics.	
Computer Science	Please refer to the “Guide to Department Entrance Examinations” for the Department of Computer Science.	
Information and Communication Engineering	Please refer to the “Guide to Department Entrance Examinations” for the Department of Information and Communication Engineering.	

Details on the Examination location for “Information Physics and Computing” will be posted on the bulletin board at the main entrance to Bldg. No. 6 of the School of

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Engineering at 9:00 a.m. on the day of the Examination. For information on Examination locations for “Mathematical Informatics,” “Computer Science,” and “Information and Communication Engineering,” please refer to the Guide to Entrance Examinations for the department in question.

#### b) Oral Examination

Between 9:00 a.m. and 6:00 p.m. on Thursday and Friday, August 21 & 22, 2014.

Detailed schedules will be posted or distributed during the Examination period.

### 3. Guidance for Oral Examinations

Date and Location	Time	Notes:
August 18, 2014 (Monday) School of Engineering Bldg. No. 6	After the completion of the Regular education subject, “mathematics,” examination	Guidance will be provided regarding all processes to be used during oral Examinations.

#### C. Notes of Caution

1. Persons wishing to start school in October 2014 must contact the Department administration office in question before submitting an application.
2. Please carefully read the “Advice for examinees in Master's and Doctoral Programs, University of Tokyo Graduate School of Information Science and Technology, Department of Information Physics and Computing,” which is included in the Guide to Entrance Examinations.

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## **II. Doctoral Program**

A. Persons wishing to apply to the Doctoral Program should refer to the “Guidelines for Applicants to the 2015 Doctoral Program, University of Tokyo Graduate School of Information Science and Technology,” and must contact the persons named below before submitting the application. Please call or write well in advance.

Contact:

University of Tokyo Graduate School of Information Science and Technology;  
Department of Information Physics and Computing

7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656

Department of Information Physics and Computing Supervisor

Department of Information Physics and Computing Administration Office

+81 (0)3-5841-6888

### **B. Preference Card**

Indicate your preferences with regard to Faculty Advisors, etc., on the “Preference Card” (Doctoral Program) included with this Guide, and submit this card together with the application documents.

### **C. Outline of research results from Master’s Program and Research Plan for Doctoral Program**

Submit the following reports together with the other application documents:

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1. Describe the content and results of past research as well as the positioning of that research in the field in question. Summary should be in either English or Japanese, on no more than two A4-sized pages.
2. Provide a concrete plan for research to be conducted after admission to the Doctoral Program and describe how this research will contribute to the field in question. Summary should be in either English or Japanese, on no more than two A4-sized pages.
3. Provide a summary of the main intent of items 1 and 2 above, in English, on no more than one A4-sized page for each.

The above items will be used as the basis for the Oral Examination and will be subject to scoring, so please ensure that these summaries are sufficiently created and appropriate in terms of length and content.

#### D. Examination Schedules

At the time of application, please select either the Summer Entrance Examination or the Winter Entrance Examination. Please note that the periods for acceptance of applications differ for the summer and winter Examinations.

##### 1. Summer Examinations

(Primary Examinations)

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Examination Dates and Locations	Examination Times	Examination Subjects	Notes:
August 19, 2014 (Tuesday) School of Engineering Bldg. No. 6	10:00 – 13:00	Information Physics and Computing	Students will be required to answer questions related to the fundamentals of Information Physics and Computing and to the applicant's research field.
August 20, 2014 (Wednesday)	Detailed schedules will be posted or distributed during the Examination period.	Oral Examination	Students will be required to answer questions on their research results and research plan submitted beforehand.

Details on the Examination location will be posted on the bulletin board at the main entrance to Bldg. No. 6 of the School of Engineering at 9:00 a.m. on the day of the Examination.

TOEFL scores will be used to determine English ability. No written English Examination will be administered. For details, refer to "Guidelines for Submission of TOEFL Test Scores; Graduate School of Information Science and Technology, the University of Tokyo (2015)," which is enclosed in the School Application Guidelines.

Persons who have completed or are expected to complete a University of Tokyo Graduate School Master's Program will not be required to submit TOEFL scores.

(Secondary Examinations)

As a rule, Secondary Examinations will be conducted during the period from January 21 to February 20, 2015. Applicants will be notified later regarding details of schedules and locations. For persons wishing to start school in October and for persons already holding a master's degree at the time of application, the Secondary Examination will be conducted based on the schedule for the Oral Examinations.

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## 2. Winter Examinations

As a rule, primary and secondary Examinations will be conducted during the period from January 21 to February 20, 2015. Acceptance will be limited to a few students. Examination methods will be in accordance with those used for Summer Examinations. Applicants will be notified regarding details of schedules and locations after applications have been received.

### E. Notes of Caution

1. Persons wishing to start school in October 2014 must contact the Department administration office in question before submitting an application.
2. Persons wishing to be included in the “special selection for mature students” must refer to the separate pamphlet entitled “2015 Guidelines for Applicants to the Doctoral Program, University of Tokyo Graduate School of Information Science and Technology [Special selection of Mature Students].” As part of the documents submitted, include an “outline of past achievements, etc.” on no more than two A4-sized pages.
3. Please carefully read the “University of Tokyo Graduate School of Information Science and Technology Department of Information Physics and Computing: Useful information for persons taking Entrance Examinations (Master’s and Doctoral Programs),” which is included in the Guide to Entrance Examinations.



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**University of Tokyo Graduate School of Information Science and  
Technology**

**Department of Information Physics and Computing  
Useful information for persons taking Entrance Examinations  
(Master's and Doctoral Programs)**

**1. Examination dates and times**

Please refer to the “Examination schedules” listed in this Guide.

**2. Examination locations**

By subway:

Marunouchi Line / Oedo Line: Get off at Hongo-sanhome Station

Chiyoda Line: Get off at Nezu Station

Namboku Line: Get off at Todaimae Station

Mita Line: Get off at Kasuga Station

(a) Specified Examination rooms are subject to change depending on the number of examinees. Please confirm all locations on the bulletin board at the main entrance to Bldg. No. 6 of the School of Engineering on the day of the Examination.

(b) Examinees should be in the designated Examination room no later than 15 minutes before the scheduled start of the Examination. If you are late, please advise the Examination supervisor.

**3. What to bring**

(a) Examination admission card;

(b) Black pencil (mechanical pencils OK);

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(c) Eraser;

(d) Pencil sharpener (only the small, handheld, non-electric type are acceptable);

(e) Clock or watch (for showing time only; devices with other functions are not acceptable).

No writing implements or tools other than those noted above will be allowed during written Examinations.

Caution: During the Examination period, all mobile phones must be turned off. Mobile phones must also not be carried on the examinee's person (on neck straps, in pockets, etc.).

#### **4. Items to keep in mind during Examinations**

(a) Examinees will not be allowed to leave the Examination room during the Examination period.

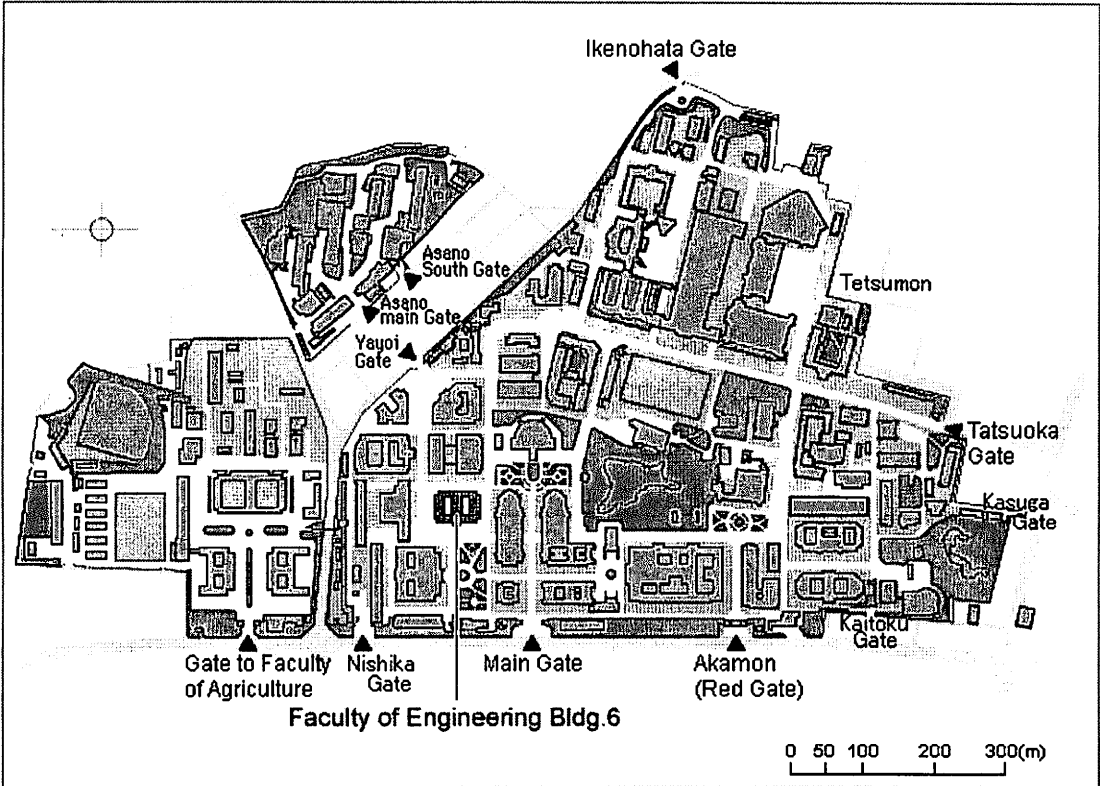
(b) Examinees will not be allowed to use restroom facilities during the Examination period.

(c) Examination admission cards must be kept on the desktop throughout the entire Examination period.

(d) Examinees cannot take answer sheets or question booklets out of the Examination room.

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**Access Map to Examination Location**



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[Preference card (for Master's Program)]

**University of Tokyo Graduate School of Information Science and  
Technology Department of Information Physics and Computing**

Program	Master's Program		
Examinee's name		Examination admission number (leave blank)	
Graduating university (only if applicable)	University: _____ School: _____ Department: _____ Graduate School: _____ School: _____ Department: _____		
Phone number and e-mail where examinee can be contacted during the Examination period	Tel:	Mobile phone:	
	E-mail:		
<b>Preferred Faculty Advisor (in order of preference)</b> Fill in ALL boxes with numbers indicating order of preference or with an 'X' if not preferred. Note that your application will be rejected if you do not fall under the supervision of any of the Faculty Advisors you select.			
Hiroshi Saruwatari (Professor)		Masatoshi Ishikawa (Professor)	
Ayumu Matani (Associate Professor)		Yoshihiro Watanabe (Lecturer)	
Shigeru Ando <sup>A)</sup> (Professor)		Kunihiko Mabuchi (Professor)	
Takaaki Nara (Associate Professor)		Takayuki Hoshino (Lecturer)	
Hiroyuki Shinoda (Professor)		Hiroshi Nakamura (Professor)	
Yasutoshi Makino (Lecturer)		Masaaki Kondo (Associate Professor)	
Shinji Hara (Professor)		Koji Ikuta (Professor)	
Koji Tsumura (Associate Professor)			
Specialized subjects to be tested on the Examination (Please circle the appropriate responses)	Information Physics and Computing / Mathematical Informatics / Computer Science / Information and Communication Engineering		
Preferred start date (Please circle the appropriate response)	October 2014 / April 2015		
Preferred field (Please describe in detail)			

◆ Submit this form together with your application.

◆ If you wish to start in October 2014, confirm with the Department administration office in question whether or not you qualify BEFORE filling out this form.

A) Prof. Ando will be in the post by March 2016.

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[Preference card (for Doctoral Program)]

**University of Tokyo Graduate School of Information Science and  
Technology Department of Information Physics and Computing**

Program	Doctoral Program		
Examinee's name		Examination admission number (leave blank)	
Graduating university or graduate school	University: _____ School: _____ Department: _____ Graduate School: _____ School: _____ Department: _____		
E-mail and phone number where examinee can be contacted during the Examination period	Tel:	Mobile phone:	
	E-mail:		
Preferred Faculty Advisor			
Application Category	SUMMER Entrance Examination / WINTER Entrance Examination	Circle "Mature student" if you wish to apply based on the selection of mature students.	Mature student
Preferred time of entry (Please circle the appropriate response)	October 2014 / April 2015		
Outline of research results from Master's Program and Research Plan for Doctoral Program			
Submit the following reports together with the other application documents.			
1. Describe the content and results of past research as well as the positioning of that research in the field in question. Summary should be in either English or Japanese, on no more than two A4-sized pages. 2. Provide a concrete plan for research to be conducted after admission to the Doctoral Program and describe how this research will contribute to the field in question. Summary should be in either English or Japanese, on no more than two A4-sized pages. 3. Provide a summary of the main intent of the items above, in English, on no more than one A4-sized page for each.			
The above items will be used as the basis for the Oral Examination and will be subject to scoring, so please ensure that these summaries are sufficiently created and appropriate in terms of length and content.			

- ◆ Submit this form together with your application.
- ◆ Please note that the periods for acceptance of applications differ for the summer and winter Examinations. Application documents that arrive outside of the applicable period for acceptance of applications shall be deemed invalid.
- ◆ If you wish to start in October 2014, confirm with the administration office for the Department in question whether or not you qualify BEFORE filling out this form.