AY 2021 Entrance Examination Guide
Department of Electrical Engineering and Information Systems (EEIS)

Doctoral Program Type A Entrance Examination Guide

1. Examination Dates and General Information

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<th>Subject</th>
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<td>Specialized subject (Electrical &amp; Electronic Engineering and Information Engineering)</td>
<td>Monday, August 24 9:30 - 12:00</td>
<td>The examination is conducted online. Before the examination, the examinees must prepare necessary equipment for the examination (a computer, a camera, an earphone, etc.) in advance. In addition, secure a broadband Internet connection necessary to take the online examination. At the end of the examination, the examinees will be asked to upload the captured images of the answer sheets, so please prepare the equipment (a camera, a smartphone, etc.) necessary for this process in advance.</td>
<td>Refer to 2(1-1).</td>
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<tr>
<td>Oral examination</td>
<td>Friday, August 28 8:00 - 18:00 (tentative)</td>
<td>The examination is conducted online. Before the examination, the examinees must prepare necessary equipment for the examination (a computer, a camera, an earphone, and etc.) in advance. In addition, secure a broadband internet connection necessary to take the online examination.</td>
<td>Refer to 2(1-2). Please attach the applicant's &quot;research plan&quot; sheet to the application form.</td>
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Notes:
- The entrance examination of this year is conducted online.
- In this year, our written examinations do not include English or Regular education subject (mathematics).
- For applicants who are students from the University of Tokyo's Department of Electrical Engineering and Information Systems, Department of Advanced Energy, and Department of Information & Communication Engineering, oral examinations may be held before Friday, August 28, 2020 in some cases.
- The applicants will be informed of the details of the online examinations of the Specialized subject and Oral examination by email or other means after the deadline of the application for the entrance examination.
- Applicants who have graduated (or are expected to graduate) from a master's program in the University of Tokyo's Department of Electrical Engineering and Information Systems,
Department of Electrical & Electronic Engineering, Department of Frontier Informatics, Department of Advanced Energy, or the Department of Information & Communication Engineering are not required to take the and Specialized Subject (Electrical & Electronic Engineering and Information Engineering) examinations.

- Applicants who have graduated (or are expected to graduate) from a master's program in a department other than those listed above at the University of Tokyo may be exempt from the written examinations. Please inquire at the Office of the Department of Electrical Engineering and Information Systems (nyushi21@ee.t.u-tokyo.ac.jp) about examination exemption policies by June 8, 2020.

2. Overview of Examinations

(1) First Stage Examination
Type-A applicants to the Ph.D. Program must take the Specialized Subject (Electrical & Electronic Engineering and Information Engineering) examination.

(1-1) Specialized Subject (Electrical & Electronic Engineering and Information Engineering)
The test will cover basic knowledge needed to conduct graduate-level research in Electrical & Electronic Engineering and Information Engineering. From the entrance exams in the academic year of 2020, to encourage the participation of applicants with backgrounds other than electrical/electronic engineering and computer science, we revise the structure of Specialized subject examinations and reduce the required number of problems to choose: examinees are requested to choose and answer two problems out of the following six problems in Specialized subject:
- Electromagnetism
- Electrical Circuits
- Information (I)
- Information (II)
- Solid-State Physics
- Control and Electric Energy Engineering

For details, please refer to the department homepage (http://www.eeis.t.u-tokyo.ac.jp/en/index.html).

Before taking the examination, prepare the admission card and necessary equipment for the online examinations (a computer, a camera, an earphone, a broadband Internet connection, etc) in advance. The examinees are not allowed to use a tablet or mobile device instead of a computer. Before starting the examinations, the examinees will be asked to connect to the designated URL at the designated time that will be notified before the examination. Following the instructions of the examiner, the applicants will download examination problems to their own computer. During the examinations, the examinees are allowed to use only sharpened black (or mechanical) pencils, answer sheets (the style and number of the answer sheets are not specified), erasers, pencil sharpeners, rulers, and watches equipped with only the timekeeping function. The examinees are not allowed to use electronic devices, information devices, dictionaries, textbooks, or any other items that can help to answer the questions in the examination. The examinee may use the computer only to view the questions. At the end of the examination, the examinees will be asked to upload captured images of the answer sheets, so please prepare the equipment (a camera, a smartphone, etc.) necessary for this process in advance.

During the examination, the examinees must be alone in a room with no one else entering. Taking the examination in a public place, such as a park, an Internet cafe, or a restaurant, is not allowed.

(1-2) Oral Examination
Similar to the Specialized Subject test, prepare the admission card and necessary equipment for the online examination. During the examination, the examinees must be alone in a room with no one else entering. Taking the examination in a public place, such as a park, an Internet cafe, or a restaurant, is not allowed. Applicants will be asked to make a presentation about their master's thesis (even if it is still being written) or equivalent. A Q&A session will follow the presentation, where some questions regarding the applicants' answers for the written examination may be asked as well. The length of the presentation will be about 20 minutes. Applicants will be asked to upload
the presentation slides at the designated URL that will be notified before the test.

(2) **Second-Stage Examination**
An oral examination, focusing on the individual candidate's master's thesis, will be conducted in February 2021 (tentative schedule) for applicants who pass the first-stage examination and are expected to finish their master's program. The actual date will be announced later. Applicants for September entrance will be on different scheduling.

3. **Required Documents**
At the time of application, please prepare (1) an acceptance letter from the preferred supervisor, (2) a “Ph.D. Program Research Plan”, and (3) a reference letter from your current advisor or boss (if required, see (3)) to be submitted along with other necessary documents.

(1) **Acceptance Letter from the Preferred Supervisor**
Applicants need to contact their preferred supervisor as early as possible before the application, and receive an acceptance letter (which can be a scanned file or a hard copy of the original letter) with the supervisor’s signature.

(2) **Ph.D. Program Research Plan**
Research plans should outline the applicant's research methodology and vision in about 1,000 English words (or 2,000 Japanese characters) on single-sided A4 size paper (not stapled). Plans may be prepared in any format as long as the following points are outlined.

- Research goal (including the background and the current international status of the research)
- Details of the research (annual plans, etc.)
- Originality of the research

Applicants must discuss the details of the research to be conducted during their Ph.D. program with their preferred supervisor beforehand.

(3) **Reference Letter from the Current Advisor or Boss**
Applicants who are currently employed and plan to retain their working status during the study program are required to submit a reference letter from their current boss at work. There are no format restrictions for the reference letter. Please also refer to the corresponding portion of the “Application Guidelines” for doctoral programs provided by the Graduate School of Engineering.

4. **Important Notice**
The application may be judged invalid if any of the required documents listed above is missing at the time of application.

Entrance examination results may be utilized for the improvement of the future entrance examinations and education at the University of Tokyo.

The Department of Electrical Engineering and Information Systems cannot facilitate a visa for applicants who wish to take the entrance examination.

5. **Information about Supervisors**
Applicants successfully admitted to the Ph.D. program are directly assigned to their preferred supervisors. Applicants need to contact their preferred supervisors as early as possible (before submitting application documents).