School of Engineering,
The University of Tokyo

**DEPARTMENT OF
SYSTEMS INNOVATION**
工学系研究科 システム創成学専攻

2023 Guide to Entrance Examinations
Problems Related to Systems Innovation

Problems Related to Systems Innovation (1/4)

- **"Problems Related to Systems Innovation" is conducted by Pre-assigned technical questions and online oral examination**
  - Applicants submit answers to pre-assigned technical questions before the oral examination
  - An oral examination will be conducted based on answer to pre-assigned technical questions

- **Written exam is not conducted in this year**
  - Written exam as last year is **not conducted**
  - Score of "Problems Related to Systems Innovation" is evaluated by response to pre-assigned technical questions and oral examination.
  - Answer to pre-assigned technical questions is also used for document screening.
  - In oral exam, specialized knowledge and ability to carry out research, etc. are examined.

Problems Related to Systems Innovation (2/4)

- **Answers to Technical Questions**
  - Research paper related to research topic of preferred supervisor is presented (paper should be available for everyone)
  - Questions related to assigned research paper are presented (approx. 3 questions) to examine;
    - Comprehension for paper, relevant basic knowledge, problem-finding ability
    - Problem-solving, research planning skills
  - Examples of technical questions are presented in department website
- **Oral exam**
  - 30min to 1hour
    - Applicants' deep understanding on the contents of assigned paper, relevant research topic, etc.
    - Extended Q&A based on applicant's answers, etc.

    are examined.
  - To ensure fairness, the examination will be conducted by multiple faculty members.

Problems Related to Systems Innovation (3/4)

■Indication and submission of Pre-assigned technical questions

- Pre-assigned technical questions will be presented on August 5th (Fri)
- Submission deadline of Answers to Technical Questions is planned on August 19 (Fri)

■Oral exam

- Applicants who pass the document screening are eligible to take oral exam.
- Details, including instructions, timetables, and other notifications concerning the online oral exam, will be published on the department website by August 26th (Fri) （Please regularly check our website）
- For the online exam, the applicant must use a PC with a camera, microphone, and stable Internet connection.
- As for doctoral program, applicants may be exempted from Problems Related to Systems Innovation（See Guide to Entrance Examinations）

Problems Related to Systems Innovation (4/4)

■Notes

- Problems Related to Systems Innovation will be shown in the department website.

- Problems are related to research topic of preferred supervisor.

- Investigate research topic of preferred supervisor beforehand.

- We recommend to contact with preferred supervisor before submitting applications.

    - Prohibited to contact with preferred supervisor after submitting applications.

FAQ

- **Any assignment can I solve?**
  - You must solve the assignment of your first choice of preferred academic advisor.
  - Submission of other assignments may result in a rejection.
- **Can I refer to other literature or books to solve problems?**
  - Yes, you may refer other literatures and books as needed.
- **Are there any restrictions for time or place for completing the assignment?**
  - You may work on the assignment at any time and place between when the assignment is presented and due date.
- **How do I submit assignments?**
  - You can submit your assignments via the website.

FAQ

- **What is the language of the assigned research papers?**
  - The assignment will be a paper written in English.
- **Will the assignment be presented in English?**
  - Assignments will be presented in both Japanese and English.
- **What is the language of the answers to the assignment?**
  - The answers to the assignment should be described in either English or Japanese.
- **What is the language of the oral examination?**
  - The oral examination will be given in either Japanese or English, whichever the candidate prefers.

FAQ

- **What kind of assignments will be given?**
  - Assignments to examine basic academic skills and research skills will be given.
- **What kind of research paper will be given?**
  - A paper related to the research field of your preferred supervisor will be selected.
  - Please investigate the research of your preferred supervisor in advance.
- **What should I study in advance?**
  - It would be good to study the research field of your preferred supervisor.
- **Is it advantageous for internal students who has many opportunities to contact with the supervisor?**
  - We recommend that you discuss your preferred supervisor before submitting your application.
  - However, we cannot answer inquiries related to problems of examination, such as specific problems of related to systems innovation.

FAQ

- **Will only the preferred supervisor evaluate the exam?**
  - To ensure fairness, the oral examination is conducted by multiple faculty members.
  - Basic academic skills and ability to conduct research are evaluated and scored from various perspectives.
- **Are communication and other skills evaluated?**
  - The oral examination of problems related to systems innovation evaluates basic academic and research skills.
  - Other skills (aptitude, etc.) are evaluated in the oral examination.