Entrance Examination Guide for the 2021 Academic Year,
Department of Mechanical Engineering,
Graduate School of Engineering,
The University of Tokyo

Master’s Program (Application Schedules A and B)
Integrated M.S./ Ph.D. Program (Application Schedule A)
Doctoral Program (Application Schedules A and B)

Inquiries about this guide should be directed to:
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This guide serves as a supplement to the “Guidelines for Applicants to the 2021 Master's Program of the Graduate School of Engineering, The University of Tokyo” and the “Guidelines for Applicants to the 2021 Doctoral Program of the Graduate School of Engineering, The University of Tokyo.” Please read this guide and the relevant guidelines carefully before applying.

1. Admission Schedule

(Application Schedule A)
- Applicants to the master’s program and the integrated M.S./Ph.D. program (those wishing to advance to a doctoral program) who are expected to graduate from a university by March 31, 2021, will be admitted in April 2021. Individuals who have already graduated from a university at the time they apply or are expected to graduate by September 23, 2020, may be admitted in either September 2020 or April 2021.
- Applicants to the doctoral program’s Application Schedule A examination, who are expected to complete a graduate school master’s program by March 31, 2021, will be admitted in April 2021. Individuals who have already completed a graduate school master’s program or are expected to do so by September 23, 2020, may be admitted in either September 2020 or April 2021.

(Application Schedule B)
- Applicants to the Application Schedule B examination can only be admitted in April 2021.

2. Supervisors

Faculty members indicated by an asterisk (*) in the faculty member list cannot serve as supervisors for students in any program. Faculty members indicated by a diamond (◇) cannot serve as supervisors for students in the integrated M.S./Ph.D. program. Faculty members indicated by a double circle (◎) cannot serve as supervisors for students in the integrated M.S./Ph.D. program or doctoral program.

Note: The faculty member list was updated in May 2020 and may be subject to change.

(1) Master’s program

Applicants to the master’s program must submit their official academic transcripts along with their application. Applicants must also fill out the inquiry sheet that was sent by mail with the examination admission card and submit the inquiry sheet by the deadline. The assignment of supervisors takes into account the written examination scores and the requests of each applicant, among other factors. As such, there is no guarantee that you will receive your first choice supervisor. Please read the instructions given on the inquiry sheet carefully and fill in the names of your desired supervisors.

(2) Integrated M.S./Ph.D. program (those wishing to advance to a doctoral program)

If you wish to enter the integrated M.S./Ph.D. program, you must first visit your desired supervisor to receive a Provisional Letter of acceptance—which indicates that you have obtained consent to study under his/her supervision—and submit it with your application. It is also possible to consult with the Department Chair (as indicated below) regarding the selection of a supervisor.
(3) Doctoral program
If you wish to enter the doctoral program, you must first receive consent from a faculty member, who is willing to be your supervisor and discuss issues such as your desired research topic, before submitting your application. It is also possible to consult with the department chair regarding the selection of a supervisor.

Department Chair: Professor Hirofumi Daiguji  Tel: +81-3-5841-6971

3. Master’s Program*1

(1) About the entrance examination
Document screening of the application documents is first conducted. The result of the document screening will be announced on the department website at noon, August 7th. Applicants who pass the document screening can proceed to the following written examination and oral examination.

(a) Written examination
The written examination for the master’s program covers the following areas: 1) three regular education subjects (Mathematics 1 that primarily covers Differential and Integral Calculus, and Differential Equations: Mathematics 2 that primarily covers Linear Algebra: and Mathematics 3 that primarily covers Complex Function Theory), 2) foreign language (if you choose English as your test language, please submit your TOEFL score*2), and 3) the specialized subject of Mechanical Engineering described in the following table.

<table>
<thead>
<tr>
<th>Specialized Subject</th>
<th>Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Engineering</td>
<td>Questions are primarily from the fields of thermal engineering, fluid dynamics, material mechanics, mechanical dynamics/control engineering, and mechanical design/production engineering.</td>
</tr>
</tbody>
</table>

International students and individuals will be provided with an English translation for the specialized subject problems (Mechanical Engineering) upon request.
Note that the written examination for the 2021 academic year will be conducted online.

(b) Oral examination
Applicants will be questioned on their desired field of specialization, research topics, and supervisor choice, as well as other subjects. Oral examinations will be conducted in assigned time slots on the examination day. Applicants failing to appear at the oral examination will be disqualified.
Note that the oral examination for the 2021 academic year will be conducted online.

(2) Application schedule
Please see the “Guidelines for Applicants to the 2021 Master's Program Graduate School of Engineering, The University of Tokyo.”

*1 Detailed information about the Application Schedule B will be announced on the department’s website in October 2020.
4. Integrated M.S./Ph.D. Program (Application Schedule A only)

(1) About the entrance examination
   (a) Written examination
   The written examination for the integrated M.S./Ph.D. program covers the following areas: 1) proficiency on one foreign language (if you choose English as your test language, please submit your TOEFL score*2) and 2) specialized content for the integrated M.S./Ph.D. program (content related to each student’s specialized field).
   Regarding the specialized content for the integrated M.S./Ph.D. program (content related to each student’s specialized field), you will be requested to write an essay on your intended research. International students and individuals will be provided with an English translation of the examination problems upon request.
   Note that the written examination for the 2021 academic year will be conducted online.

   (b) Oral examination
   You will be questioned on your desired field of specialization, research topics, and supervisor choice, as well as other subjects. The oral examination will be conducted within the designated time slots on the examination day. Applicants failing to appear at the oral examination will be disqualified.
   Note that the oral examination for the 2021 academic year will be conducted online.

5. Doctoral Program

(1) About the first stage examination
   (a) Written examination
   The written examination administered during the first stage examination for the doctoral program covers foreign language (if you choose English as your test language, please submit your TOEFL score*2) and doctoral program specialized content (mathematics and mechanics, and content related to the specialized field in question). However, if you have completed or are expected to complete a master’s program at the Graduate School of Engineering, The University of Tokyo, you are exempted from the foreign language examination and doctoral program specialized examination (mathematics and mechanics). Under this condition, you only need to take an examination on the doctoral program’s specialized content (content related to the specialized field in question).
   Regarding the doctoral program specialized content examination (mathematics, mechanics, and content related to the specialized field in question), international students and individuals will be provided with an English translation of the examination problems upon request.
   Note that the written examination for the 2021 academic year will be conducted online.

   (b) Oral examination
   The oral examination administered during the first stage examination for the doctoral program will involve asking you about the progress on your master’s thesis or associated research, the research plan for your proposed research project, as well as your knowledge of mechanical engineering relevant to these topics.
   Note that the oral examination for the 2021 academic year will be conducted online.

(2) About the second stage examination
   Only individuals who pass the first stage examination will be allowed to take the second stage examination for the doctoral program. The second stage examination will include a
presentation followed by a question and answer session on your completed master’s thesis or other equivalent research. Applicants will be notified of the examination schedule details (the examination is generally held in late January). If you have already completed a graduate school master’s program at the time of application or are expected to do so by September 23, 2020, the second stage examination will be held in late August. You will be notified of the details at a later date.

(3) About the application schedule
Please see the “Guidelines for Applicants to the 2021 Doctoral Program Graduate School of Engineering, The University of Tokyo.”

6. Miscellaneous

Examination scores collected during the admissions selection process may be used to discuss future admission examinations and improvement of education at the Department of Mechanical Engineering.

*2 Applicants must take the TOEFL (iBT, iBT Special Home Edition, or PBT) and submit their official TOEFL score by August 10th. No TOEFL-ITP examination will be held at the graduate school admission examination venue. The applicants using the Application Schedule A and failing to submit their official TOEFL score by August 10 must report to the department office by June 12. Please see the attached guidelines “Notice regarding Foreign-language (English) Examinations in 2021 Graduate School of Engineering, The University of Tokyo Entrance Examinations” for more details.
Applicants must submit an official TOEFL (iBT, iBT Special Home Edition, or PBT) score during the application process. No TOEFL-ITP examination will be held at the graduate school admission examination venue. Please see the attached guidelines “Notice regarding Foreign-language (English) Examinations in 2021 Graduate School of Engineering, The University of Tokyo Entrance Examinations” for more details.

### Program Schedule A: Schedule for the Department of Mechanical Engineering Master’s and Doctoral Program Entrance Examinations

<table>
<thead>
<tr>
<th>Program</th>
<th>Exam Subject</th>
<th>Time and Date</th>
<th>Exam Venue</th>
<th>Items to Bring</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language</td>
<td>English</td>
<td>Saturday, August 22 13:00-</td>
<td></td>
<td>Submission of an official TOEFL score ※1</td>
<td></td>
</tr>
<tr>
<td>Regular Education Subjects</td>
<td>Preparation of online examinations</td>
<td>Sunday, August 23 9:00-9:40</td>
<td></td>
<td>Examination time does not include preparation time.</td>
<td></td>
</tr>
<tr>
<td>Mathematics 1 (Primarily from the fields of Differential and Integral Calculus, Differential Equations)</td>
<td>Sunday, August 23 10:10-10:50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics 2 (Primarily from the field of Linear Algebra)</td>
<td>Monday, August 24 12:30-14:45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics 3 (Primarily from the field of Complex Function Theory)</td>
<td>Tuesday, August 25 9:00-11:15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specialized Subjects</td>
<td>Mechanical Engineering (Thermal Engineering)</td>
<td>Monday, August 24 9:00-11:15</td>
<td></td>
<td>Examination time includes preparation time.</td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineering (Fluid Dynamics)</td>
<td>Monday, August 24 12:30-14:45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineering (Material Mechanics)</td>
<td>Monday, August 24 15:15-17:30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineering (Mechanical Dynamics/Control)</td>
<td>Tuesday, August 25 9:00-11:15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineering (Mechanical Design/Production)</td>
<td>Tuesday, August 25 12:30-14:45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral Examination</td>
<td>Friday, August 28 9:00-</td>
<td>Online</td>
<td></td>
<td>Applicants will wait for their turn within the designated time period.</td>
<td></td>
</tr>
</tbody>
</table>

※1 Applicants must take TOEFL (iBT, iBT Special Home Edition, or PBT) and submit their official TOEFL score by August 10th. No TOEFL-ITP examination will be held at the graduate school admission examination venue. The applicants using the Application Schedule A and failing to submit their official TOEFL score by August 10 must report to the department office by June 12. Please see the attached guidelines “Notice regarding Foreign-language (English) Examinations in 2021 Graduate School of Engineering, The University of Tokyo Entrance Examinations” for more details.

### Program Schedule B: Schedule for the Department of Mechanical Engineering Master’s and Doctoral Program Entrance Examination

<table>
<thead>
<tr>
<th>Program</th>
<th>Exam Subject</th>
<th>Time and Date</th>
<th>Exam Venue</th>
<th>Items to Bring</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language</td>
<td>English</td>
<td>Submission of an official TOEFL score ※1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated MS/PhD Program</td>
<td>Content Related to the Specialized Field in Question</td>
<td>Tuesday, August 25 15:15-16:30</td>
<td>Online</td>
<td>Details will be announced on the department website at a later date.</td>
<td>Examination time includes preparation time.</td>
</tr>
<tr>
<td>Oral Examination</td>
<td>Friday, August 28 9:00-</td>
<td>Online</td>
<td></td>
<td>Applicants will wait for their turn within the designated time period.</td>
<td></td>
</tr>
</tbody>
</table>

※1 Applicants must take TOEFL (iBT, iBT Special Home Edition, or PBT) and submit their official TOEFL score by August 10th. No TOEFL-ITP examination will be held at the graduate school admission examination venue. The applicants using the Application Schedule A and failing to submit their official TOEFL score by August 10 must report to the department office by June 12. Please see the attached guidelines “Notice regarding Foreign-language (English) Examinations in 2021 Graduate School of Engineering, The University of Tokyo Entrance Examinations” for more details.

<table>
<thead>
<tr>
<th>Program</th>
<th>Exam Subject</th>
<th>Time and Date</th>
<th>Exam Venue</th>
<th>Items to Bring</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral Program</td>
<td>Mathematics and Mechanics</td>
<td>Wednesday, August 26 9:00-13:00</td>
<td>Online</td>
<td>Details will be announced on the department website at a later date.</td>
<td>Examination time includes preparation time.</td>
</tr>
<tr>
<td>Content Related to the Specialized Field in Question</td>
<td>Tuesday, August 25 15:15-16:30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral Examination</td>
<td>Wednesday, August 26 14:00</td>
<td>Online</td>
<td></td>
<td>Applicants will wait for their turn within the designated time period.</td>
<td></td>
</tr>
</tbody>
</table>

※2 Applicants must submit an official TOEFL (iBT, iBT Special Home Edition, or PBT) score during the application process. No TOEFL-ITP examination will be held at the graduate school admission examination venue. Please see the attached guidelines “Notice regarding Foreign-language (English) Examinations in 2021 Graduate School of Engineering, The University of Tokyo Entrance Examinations” for more details.