

This document is a translation from the authoritative Japanese version.

Guide to the 2022 Entrance Examination
Department of Civil Engineering
Graduate School of Engineering
The University of Tokyo

Department of Civil Engineering
Graduate School of Engineering, The University of Tokyo
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Department of Civil Engineering, Admission information webpage:
http://www.civil.t.u-tokyo.ac.jp/graduate_school/

Depending on the situation of COVID-19, the contents of this guide (e.g., required documents, examination date, examination methods) may be changed in the future. If there are any changes, they will be announced on the department webpage or by e-mail to applicants.

From the 2021 entrance exam, which was held in August 2020, the written exam "Civil Engineering" is given in English. Japanese translations are provided for the technical terms. Answers can be given in either English or Japanese.

Guide to the 2022 Entrance Examination
Master's program

Department of Civil Engineering
Graduate School of Engineering
The University of Tokyo

Introduction

This guide supplements the explanation of “**Guidelines for Applicants to the 2022 Master's Program, Graduate School of Engineering, the University of Tokyo**”, and describes the information necessary for taking the entrance examination for Department of Civil Engineering. Information related to the entrance examination is also available in “**Notes on online examination**” of Department of Civil Engineering, and the webpage of Department of Civil Engineering (<http://www.civil.t.u-tokyo.ac.jp/>). If you have any questions, please email:

Admission Team (Department of Civil Engineering): gsao@civil.t.u-tokyo.ac.jp

FY2022 entrance examination will be held in a different style to previous years due to the outbreak of COVID-19. Please read the following instructions carefully, and prepare for the application and examination. Most announcement on the entrance examination will be sent to applicants by email and/or via the Department's webpage.

1. Qualification procedures and schedule

The entrance examination for master's program consists of English language test and an online written and oral examination. The online examination will be held on 30th-31st August 2021. Prior to this, an online connection test will be conducted on 26th August 2021. The result of the entrance examination will be announced on 14th September 2021.

Department of Civil Engineering does not conduct entrance examination on application schedule B.

1) Application and required documents

In accordance with “**Guidelines for Applicants to the 2022 Master's Program, Graduate School of Engineering, the University of Tokyo**”, submit “Documents to Submit”, including the application form, to Graduate School of Engineering (both by upload and by post).

In addition, in order to take the entrance examination for Department of Civil Engineering, the following items must be submitted. Item ① should be submitted to Graduate School of Engineering together with the “Document to Submit” (both by upload and by post). The submission procedure of Item ② differs depending on the type of English language test. For Items ③ and ④, refer to “4. Survey form required by Department of Civil Engineering” in this guide.

- ① **Self-recommendation letter:** Self-recommendation letter will be used as reference material for the evaluation of the oral examination. Summarize your motivation of application to Department of Civil Engineering and your aptitude and strong points for pursuing frontier studies and researches in Self-recommendation letter. The letter form can be downloaded from the department's webpage.
- ② **Score proof of English language test:** English language test for the entrance examination of Department of Civil Engineering will be based on the official scores of TOEFL, IELTS, or TOEIC submitted by the applicants (our department recommends TOEFL). The English language score must be received by 13th August 2021. There is no deadline for taking the English tests. The English test scores are only valid for examinations taken in September 2019 or later. The detailed information on the required scores to submit is summarized below.

TOEFL	Submit an official score of TOEFL iBT or TOEFL iBT Home Edition. The score must be submitted in accordance with “Notice regarding Foreign-language (English) Examinations in 2022 Graduate School of Engineering, The University of Tokyo”. We accept “ <u>Test Date Scores</u> ”. (https://www.t.u-tokyo.ac.jp/shared/admission/data/toefl_2022_e_ver3.pdf)
IELTS	Submit an original copy of official score of IELTS Academic or IELTS Indicator to Graduate School of Engineering together with “Document to Submit” (both by upload and by post). If there is a delay in obtaining the official score and the original copy cannot be sent together with “Document to Submit” above, it should be submitted to Admission team of Department of Civil Engineering both by upload*1 and by registered post*2 (The mailing address is given on the front cover of this guide). The English score must be received by 13 th August 2021.

TOEIC	Submit an original copy of official score of TOEIC Listening & Reading to Graduate School of Engineering together with “Document to Submit” (both by upload and by post). If there is a delay in obtaining the official score and the original copy cannot be sent together with “Document to Submit” above, it should be submitted to Admission team of Department of Civil Engineering both by upload*1 and by registered post*2 (The mailing address is given on the front cover of this guide). The English score must be received by 13 th August 2021. Score Report of “Institutional Program” is also accepted.
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*1: The upload website for Department of Civil Engineering will be notified to the applicants concerned.

*2: Accepted by post only.

- ③ **Exam field to answer in writing exam:** Select two Exam Fields to be answered in the writing exam “Civil Engineering”, from the six Fields shown in Appendix 1 “**Exam Field and scope of ‘Civil Engineering’**”. The selected Exam Fields must be notified to Civil Engineering Department within the acceptance period according to “4. Survey form required by Department of Civil Engineering” in this guide. No change in the answer fields will be allowed after the notification.
- ④ **Preferred supervisor group:** Select preferred supervisor groups from Appendix II “**List of faculty members and their field of study**”. The selected supervisor groups must be notified to Civil Engineering Department within the acceptance period according to “3. Research group selection” and “4. Survey form required by Department of Civil Engineering” in this guide.

2) Entrance exam subject and schedule

Except for English language test, the written and oral examinations will be conducted online. For the subject of written examination “Civil Engineering” listed in the table below, examinees are permitted to refer to any documents including materials on the website to answer the questions (Open book style).

Any contact, conversation or exchange of information with others about the content of the examination during the online examination is considered fraudulent. If fraudulent activity is detected, the exam qualification will be cancelled even after the admission.

The subjects and schedule of the entrance examination are as follows. Details of how the examination will be conducted, such as URL of the online exam room, will be announced by email by mid-August. The required condition for passing the examination is to take all subjects.

Subject	Date & Time	Venue	Marks	Remarks
English	—	—	300	Submit official score of TOEFL, IELTS or TOEIC L&R by 13 th August 2021. Refer to “1) Application and required documents” . English Exam is based on TOEFL score. Refer to the department’s webpage for the conversion from IELTS and TOEIC to TOEFL.
Civil Engineering	August 30, 2021 (Monday) 9:00~12:00 (JST)	Online	700 (350 × 2)	Answer two fields you selected in advance. You cannot change your chosen subjects on the day of the examination. Enter the online exam room by 8:30 (JST)
Oral exam	August 31, 2021 (Tuesday) (Exam time will be announced at the online connection test on 26 th August)	Online	300	The examination time will be about 10 min asking about the basic academic skills and aptitude required to study in the master’s program in Department of Civil Engineering, as well as the basic abilities related to the desired research field.

※Online connection test will be conducted on August 26 at 1PM (JST). Attendance is required as the exam day process will be explained.

2. October admission

In Department of Civil Engineering, those who have already graduated from university (undergraduate) or are expected to graduate by September 30, 2021, are eligible to apply for the master's program to start in October 2021. Applicants must put a mark in the relevant column in the application form for master's program in Graduate School of Engineering, The University of Tokyo.

3. Research group selection

Select preferred supervisor groups from Appendix II "**List of faculty members and their field of study**". It is desirable to participate in the entrance exam guidance on May 22, 2021 and take this opportunity as a reference for selecting a preferred supervisor group. The guidance will be carried out in Japanese. The detail of the guidance is announced on the department webpage.

Mark your preference orders to supervisor groups you want to be assigned from the first to the ninth without duplicates in the online form "**Additional data survey for entrance exam (Master program)**". It is not always necessary to mark your preference orders to all supervisor groups, but be aware that you will fail the exam if you are not assigned to any one of your marked group.

The basic quota (minimum number of accepted students) and maximum quota (maximum number of accepted students) are shown in Appendix II "**List of faculty members and their field of study**". The rule for assigning students to a supervisor group (hereinafter simply referred to as group) is explained as follows;

- The principle is to assign first choice provisional qualified examinee to each group; however, the maximum quota shall not be exceeded.
- If there is a group that does not meet the basic quota at the first choice of qualified examinee, provisional qualified examinee will be determined based on the total score of the entrance exam.
- If there is/are group(s) which do/does not meet the basic quota at the first choice of provisional qualified examinee, move provisional qualified examinee, from the group which exceed the basic quota with the highest number, to the group of lowest number, by respecting preferred supervisor groups.
- If you did not mark your preference to some group(s) and if you were not assigned to any groups you marked your preference order(s), you could fail the exam. In that case, rounded-up provisional qualified candidates are determined to satisfy the basic quota of groups.

The determined supervisor group will be noticed after the announcement of the exam result planned on 14th September. It is posted on the web page of the Department of Civil Engineering. Your supervisor will be decided by the group accordingly.

4. Survey form required by Department of Civil Engineering

In accordance with "**Guidelines for Applicants to the 2022 Master's Program, Graduate School of Engineering, the University of Tokyo**" and "1. Qualification procedures and schedule 1) Application and required document", submit "Self-recommendation letter" and "Score proof of English test" together with "Documents to Submit", including the application form, to Graduate School of Engineering (both by upload and by post).

In addition, submit the online survey form "**Additional data survey for entrance exam (Master program)**" from the department webpage within the following acceptance period. If you cannot access to the online survey form, please contact the admission team (gsao@civil.t.u-tokyo.ac.jp).

Acceptance period: July 1st 2021 (Thursday) 7: 00 ~ July 7th 2021 (Wednesday) 23:59 [JST]

<Additional data to be submitted>

- **Email and other contact info:** To be used for notification related to the entrance exam. Please provide the contact info which certainly reach the applicant.
- **Exam fields to be answered in the writing exam:** Select two Exam Fields to be answered in the writing exam "Civil Engineering", from the six Fields.
- **Preferred supervisor group**

5. Access to questions in past entrance exams

The questions in the past entrance exams are accessible online in the department webpage. Note: although this year's written examination is online, the scope of each exam field is the same as in previous years.

Admission information Webpage:

Graduate School of Engineering: <https://www.t.u-tokyo.ac.jp/soee/admission/general.html>

Department of Civil Engineering: http://www.civil.t.u-tokyo.ac.jp/graduate_school/

Guide to the 2022 Entrance Examination
Doctoral program

Department of Civil Engineering
Graduate School of Engineering
The University of Tokyo

Introduction

This guide supplements the explanation of “**Guidelines for Applicants to the 2022 Doctoral Program, Graduate School of Engineering, the University of Tokyo**”, and describes the information necessary for taking the entrance examination for Department of Civil Engineering. Information related to the entrance examination is also available in “**Notes on online examination**” of Department of Civil Engineering, and the webpage of Department of Civil Engineering (<http://www.civil.t.u-tokyo.ac.jp/>). If you have any questions, please email:

Admission Team (Department of Civil Engineering): gsao@civil.t.u-tokyo.ac.jp

FY2022 entrance examination will be held in a different style to previous years due to the outbreak of COVID-19. Please read the following instructions carefully, and prepare for the application and examination. Most announcement on the entrance examination will be sent to applicants by email and/or via the Department’s webpage.

1. Qualification procedures and schedule

The entrance examination for doctoral program consists of primary examination (English language test and an online written and oral examination) and secondary examination (research presentation and discussion). The online examination in the primary examination will be on 30th August 2021. Prior to this, an online connection test will be conducted on 26th August 2021. The result of the primary examination will be announced on 14th September 2021.

The secondary examination schedule depends on the preferred admission timing of the applicants. For applicants who plan April 2022 admission, the secondary examination will be held in late January 2022, and results will be announced afterwards. For applicants who plan October 2021 admission, the secondary examination will be held in July-August 2021, and results will be announced at the same time as the primary examination.

Department of Civil Engineering does not conduct entrance examination on application schedule B.

1) Application and required documents

In accordance with “**Guidelines for Applicants to the 2022 Doctoral Program, Graduate School of Engineering, the University of Tokyo**”, submit “Documents to Submit”, including the application form, to Graduate School of Engineering (both by upload and by post).

In addition, in order to take the entrance examination for Department of Civil Engineering, the following items must be submitted. Item ① should be submitted to Graduate School of Engineering together with the “Document to Submit” (both by upload and by post). The submission procedure of Item ② differs depending on the type of English language test. For Items ③, ④ and ⑤, refer to “4. Survey form required by Department of Civil Engineering” in this guide.

- ① **Self-recommendation letter:** Self-recommendation letter will be used as reference material for the evaluation of the oral examination. Summarize your motivation of application to Doctoral Program of Department of Civil Engineering and your aptitude and strong points for pursuing frontier studies and researches in Self-recommendation letter. The letter form can be downloaded from the department’s webpage.
- ② **Score proof of English language test:** English language test for the entrance examination of Department of Civil Engineering will be based on the official scores of TOEFL, IELTS, or TOEIC submitted by the applicants (our department recommends TOEFL). The English language score must be received by 13th August 2021. There is no deadline for taking the English tests. The English test scores are only valid for examinations taken in September 2019 or later. The detailed information on the required scores to submit is summarized below.

※Applicants who have/will complete(d) the master’s program at the Graduate Scholl of Engineering in the University of Tokyo are exempt from English test.

TOEFL	Submit an official score of TOEFL iBT or TOEFL iBT Home Edition. The score must be submitted in accordance with “Notice regarding Foreign-language (English) Examinations in 2022 Graduate School of Engineering, The University of Tokyo”. We accept “Test Date Scores”. (https://www.t.u-tokyo.ac.jp/shared/admission/data/toefl_2022_e_ver3.pdf)
IELTS	Submit an original copy of official score of IELTS Academic or IELTS Indicator to Graduate School of Engineering together with “Document to Submit” (both by upload and by post). If there is a delay in obtaining the official score and the original copy cannot be sent together with “Document to Submit” above, it should be submitted to Admission team of Department of Civil Engineering both by upload* ¹ and by registered post* ² (The mailing address is given on the front cover of this guide). The English score must be received by 13 th August 2021.
TOEIC	Submit an original copy of official score of TOEIC Listening & Reading to Graduate School of Engineering together with “Document to Submit” (both by upload and by post). If there is a delay in obtaining the official score and the original copy cannot be sent together with “Document to Submit” above, it should be submitted to Admission team of Department of Civil Engineering both by upload* ¹ and by registered post* ² (The mailing address is given on the front cover of this guide). The English score must be received by 13 th August 2021. Score Report of “Institutional Program” is also accepted.

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- ③ **Exam field to answer in writing exam:** Select one Exam Field to be answered in the writing exam “Civil Engineering”, from the six Fields shown in Appendix 1 “**Exam Field and scope of ‘Civil Engineering’**”. The selected Exam Field must be notified to Civil Engineering Department within the acceptance period according to “4. Survey form required by Department of Civil Engineering” in this guide. No change in the answer fields will be allowed after the notification.
- ④ **Preferred supervisor:** Select the preferred supervisors from Appendix II “**List of faculty members and their field of study**”. The selected supervisors must be notified to Civil Engineering Department within the acceptance period according to “3. Supervisor selection” and “4. Survey form required by Department of Civil Engineering” in this guide.
- ⑤ **Contact information of reference person:** Submit the contact information of reference person who can prepare a letter of recommendation explaining the applicant’s research ability. The reference person does not have to be the supervising professor of the applicant.

2) Subjects and schedule of primary entrance exam

Except for English language test, the written and oral examinations will be conducted online. For the subject of written examination “Civil Engineering” and “Specialty” listed in the table below, examinees are permitted to refer to any documents including materials on the website to answer the questions (Open book style).

Any contact, conversation or exchange of information with others about the content of the examination during the online examination is considered fraudulent. If fraudulent activity is detected, the exam qualification will be cancelled even after the admission.

The subjects and schedule of the primary entrance examination are as follows. Details of how the examination will be conducted, such as URL of the online exam room, will be announced by email by mid-August. The required condition for passing the examination is to take all subjects.

Subject	Date & Time	Venue	Marks	Remarks
English	—	—	300	Submit official score of TOEFL, IELTS or TOEIC L&R by 13 th August 2021. Refer to “1) Application and required documents” . English Exam is based on TOEFL score. Refer to the department’s webpage for the conversion from IELTS and TOEIC to TOEFL. Applicants who have/will complete(d) the master’s program at the Graduate School of Engineering in the University of Tokyo are exempt from English test.

Civil Engineering	August 30, 2021 (Monday) 9:00~10:30 (JST)	Online	1000	Answer one field you selected in advance. You cannot change your chosen subject on the day of the examination. Enter the online exam room by 8:30 (JST)..
Specialty	August 30, 2021 (Monday) 11:00~12:30 (JST)	Online	1000	Evaluate your understanding of the proposed research topic. Stay in the examination room following "Civil Engineering" above.
Oral exam by supervisor	August 30 (Monday) ~ September 1, 2021 (Wednesday) (Time specified by the supervisor)	Specified by supervisor	—	After receiving the examination admission card, contact your preferred supervisor to make an appointment.
Oral exam	August 30, 2021 (Tuesday) Afternoon (JST) (Exam time will be announced at the online connection test on 26th August)	Online	—	The examination time will be about 15 min asking about the basic academic skills and aptitude required to study in the doctoral program in Department of Civil Engineering, as well as the basic abilities related to the desired research field.

※Online connection test will be conducted on August 26 at 1PM (JST). Attendance is required as the exam day process will be explained.

3) Secondary entrance exam (presentation and discussion)

Academic research ability is evaluated by the presentation and discussion of applicant's previous study (such as master-degree research) and future research plan. Please make a presentation using a slide (or relevant method). The presentation time including discussion is about 20 minutes. The detailed schedule and presentation method will be notified to the applicant by email.

2. October admission

In Department of Civil Engineering, applicants with a master's degree or expected to obtain a master's degree by September 30, 2021, are eligible to apply for the doctoral program to start in October 2021. Applicants must put a mark in the relevant column in the application form for doctoral program in Graduate School of Engineering, The University of Tokyo.

3. Supervisor selection

Select the preferred supervisors from Appendix II "**List of faculty members and their field of study**" from 1st preference to up to 3rd preference, and submit them in the online form "**Additional data survey for entrance exam (Doctoral program)**".

The supervisor's name will be noticed together with the announcement of the secondary exam result on the department webpage.

4. Survey form required by Department of Civil Engineering

In accordance with "**Guidelines for Applicants to the 2022 Doctoral Program, Graduate School of Engineering, the University of Tokyo**" and "1. Qualification procedures and schedule 1) Application and required document", submit "Self-recommendation letter" and "Score proof of English test" together with

“Documents to Submit”, including the application form, to Graduate School of Engineering (both by upload and by post).

In addition, submit the online survey form “**Additional data survey for entrance exam (Doctoral program)**” from the department webpage within the following acceptance period. If you cannot access to the online survey form, please contact the admission team (gsao@civil.t.u-tokyo.ac.jp).

Acceptance period: July 1st 2021 (Thursday) 7: 00 ~ July 7th 2021 (Wednesday) 23:59 [JST]

<Additional data to be submitted>

- **Email and other contact info:** To be used for notification related to the entrance exam. Please provide the contact info which certainly reach the applicant.
- **Exam fields to be answered in the writing exam:** Select one Exam Field to be answered in the writing exam “Civil Engineering”, from the six Fields.
- **Preferred supervisor**
- **Contact information of reference person**

5. Access to questions in past entrance exams

The questions in the past entrance exams are accessible online in the department webpage. Note: although this year’s written examination is online, the scope of each exam field is the same as in previous years.

Admission information Webpage:

Graduate School of Engineering: <https://www.t.u-tokyo.ac.jp/soee/admission/general.html>

Department of Civil Engineering: http://www.civil.t.u-tokyo.ac.jp/graduate_school/

2022 Exam field and scope of 'Civil Engineering'

Exam field	Scope of the exam	Corresponding courses at the Department of Civil Engineering
Field 1 (Structures / Design)	Structural mechanics (beam/column mechanics, energy principle, stability/instability problems), Fundamentals of continuum mechanics, Basics of structural design, Basics of structural vibrations and earthquake resistant designs	Structural mechanics Structural dynamics Planning and design of structures
Field 2 (Concrete engineering / Geotechnical engineering)	Fresh concrete and construction work plan, Mechanical performance of reinforced concrete structures, Hydration, early-age properties and durability of cementitious materials, Maintenance of concrete structures, Recycling in concrete engineering, Mechanics of geomaterials (consolidation, shear, compaction, permeability), Earth structures (foundation, embankment, retaining wall, excavation, slope)	Planning and design of structures Concrete engineering, Soil mechanics Mechanics of materials Civil engineering design and technology
Field 3 (Hydrospheric engineering)	Hydrostatics, Laws of conservation of mass and momentum, Bernoulli's principle, Potential flows, Laminar and turbulent flow, Pipe and open channel flow, Basics of surface wave (small amplitude wave theory, shoaling of regular waves, long wave), River and coastal planning	Fundamental fluid mechanics Hydraulics Coastal engineering Basics of hydrospheric engineering and design
Field 4 (Transportation / Spatial information engineering)	Transportation planning, Transportation policy, Travel behavior analysis, Transportation economics, Surveying, Geographic information system, Remote sensing	Transportation Spatial information 1 Spatial information 2
Field 5 (Urban / Landscape)	Outline of urban policy and planning from premodern to modern ages, Basics of urban or regional analysis, Basics on urban planning system and urban design, Landscape design theory and landscape analysis / prediction / assessment, Meaning of landscape / traditional landscape, Basic knowledge on the aesthetic design of civil engineering structures	Urban policy Planning and design
Field 6 (International project / Management)	Construction project management, Construction industry, Public procurement, Engineering ethics, Social decision making, Basic knowledge about international aid to developing countries, Basis of development economics, Socio-technology, Social innovation	Principles of management Project management Development and infrastructure Studies on socio-technology

2022 List of faculty members and their field of study at Department of Civil Engineering Appendix II

Group	Basic quota (Max. quota)	Faculty member's name	Field of study
Transportation engineering and planning	5 (13)	Prof. Eiji Hato	Urban planning and transportation engineering
		Prof. Takamasa Iryo (PSL)	Network traffic studies
		Prof. Takashi Oguchi (IIS)	Traffic management and control, Traffic flow analysis, Road geometric design, Mobility innovation
		Assoc. Prof. Shoichi Suzuki (IIS)	Transport policy
		Assis. Prof. Junji Urata	Computational Transportation Engineering, Evacuation, Social Interaction Behavior
Spatial information	5 (12)	Prof. Takashi Fuse	Spatial information engineering, Regional dynamics analysis, Integration of measurement and simulation, Photogrammetry, Image processing, 3D visualization
		Prof. Wataru Takeuchi (IIS)	Remote sensing of environment and disaster, Interaction between terrestrial ecosystem and human society
		Prof. Tsuyoshi Ichimura (ERI)	Urban and social simulation, Computational science, Computational earthquake engineering/seismology, Convergence of artificial intelligence and physics-based simulation
		Assoc. Prof. Lalith Wijerathne (ERD)	Computational earthquake engineering, Large-scale simulations of 3D crack propagation, 1:1 scale economic simulations
		Assoc. Prof. Kohei Fujita (ERI)	Large-scale earthquake simulation using Fugaku, Computer science algorithm development for utilizing advanced computer architectures
Infrastructure development and management	3 (8)	Prof. Masahide Horita	Infrastructure systems management, Collective decision-making theory, Public procurement, Project delivery systems design, International project management
		Assist. Prof. Yu Maemura	Conflict and negotiation, development aid policy and practice, project evaluation, intercultural communication
		Project Assoc. Prof. Pang-jo Chun (DFL)	ICT/AI for Infrastructure maintenance, BIM/CIM, i-Construction system studies
		<input type="radio"/> Proj. Prof. Kazumasa Ozawa (DFL)	Construction project management, i-Construction system studies, Public procurement system
Design and landscape	1 (5)	Prof. Yu Nakai	Civic design, Landscape design, Civil engineering history
Hydromechanics and environment	6 (15)	Prof. Koji Ikeuchi	River engineering, Water and disaster management, Conservation and restoration of river environment
		Prof. Yoshimitsu Tajima	Coastal hydrodynamics, Coastal protections and beach topography changes, Mitigations and management of flood disaster
		Prof. Fuminori Kato (PSL)	Coastal disaster and erosion management, Coastal structures
		Prof. Kei Yoshimura (IIS)	Isotope meteorology, Land surface processes, Dynamical downscaling, Earth system model development, Civilization and climate change
		Assoc. Prof. Takeyoshi Chibana	Ecosystem management in a river basin, River morphology, River engineering, River environmental protection and restoration
		Assoc. Prof. Takenori Shimozono	Wave modeling, Coastal morpho-dynamics and Disaster prevention
		Assoc. Prof. Dai Yamazaki (IIS)	Hydrology, Global hydrodynamics, Modelling and remote sensing of surface waters, Hydro-topography analysis
		Assoc. Prof. Yohei Sawada (IED)	Hydrometeorological disaster prediction, Simulation-observation integration
		Proj. Prof. Kazuo Oki (IIS)	Global monitoring for ecology and environment, River basin management with RS and GIS
		Proj. Prof. Akiyuki Kawasaki (IFL)	Water-related disaster and poverty reduction, Disaster prevention and river basin planning in developing countries, Global commons
Infrastructure technology and design (A)	4 (10)	Proj. Prof. Masashi Kiguchi (IFL)	Monsoon variation climatology, Hydrology and climate change, Rainfall phenomena in monsoon Asia
		Proj. Assoc. Prof. Takao Yoshikane (IIS)	Regional Earth System Modelling, Local-scale weather prediction using AI
		Prof. Junichi Koseki	Seismic stability of retaining walls, Deformation properties of geomaterials, Liquefaction, Ground improvement and soil reinforcement
		Prof. Reiko Kuwano (IIS)	Laboratory soil test, Long-term behavior of buried/earth structure, Ground cave-in, Internal erosion
Infrastructure technology and design (B)	10 (24)	Assoc. Prof. Kenji Watanabe	Seismic stability of earth structure, Performance based design, Reinforcement of existing earth structure/slope against earthquake and heavy rainfall
		Assoc. Prof. Takashi Kiyota (IIS)	Geo-disaster mitigation engineering, Field damage survey, Liquefaction assessment, Landslide
		Prof. Takeshi Ishihara	Wind engineering, Wind energy, Typhoon disaster mitigation, Computational fluid dynamics, Structural dynamics
		Prof. Tetsuya Ishida	Nonlinear mechanics of aging concrete, Multi-scale and multi-chemo-physics of structural concrete, 3D Printing technology of cementitious materials, Data-driven maintenance management of concrete structures
		Prof. Toshiharu Kishi (IIS)	Material science of concrete, Durability of RC structures, Self-healing concrete, Fresh property, Rheology
		Assoc. Prof. Tomonori Nagayama	Bridge engineering, Structural control and monitoring, Integration of structural and vehicular dynamic models and observation, Structural load
		Assoc. Prof. Kohei Nagai (IIS)	Concrete engineering, Meso-scale analysis, Fiber, Reinforced cementitious composite, Anchorage performance of RC, Infrastructure management
		Assoc. Prof. Tsukasa Mizutani (IIS)	Big data construction of infra-surface/internal structure, Real-time analysis, Radar/Laser sensing, Vibration, Digital signal processing/Image processing
		Assoc. Prof. Yuya Sakai (IIS)	Construction materials engineering, Recycling, Nondestructive testing, Mass transfer in concrete, Highspeed impact test
		Proj. Assoc. Prof. Atsushi Yamaguchi (UCRL)	Wind engineering, Wind power engineering, Wind resource and site assessment, Load estimation on wind turbine, Wind speed and power forecasting
International project	4 (13)	Proj. Assoc. Prof. Di Su	Structural simulation, Dynamics of bridge structures, Structural health monitoring
		Assist. Prof. Yuya Takahashi	Durability mechanics of reinforced concrete, Thermo-hygro physics of cementitious composites, Life-span assessment and planning
		Project Assist. Prof. Go Igarashi (UCRL)	Numerical simulation on structural performance of new cementitious materials and structure, Long-term durability of construction materials
		Prof. Hironori Kato	International transportation studies, Transportation planning, Transportation policy, Transportation economics, Transportation finance
		Prof. Taikan Oki	Human Geoscience, Water/Climate Change and Sustainable Development, Risk Management on Global Environmental Changes
		Prof. Daisuke Fukuda	Planning theory for smart city/mobility, International standardization of smart city/mobility, Evaluation of transportation network reliability, Data engineering for urban redesign
Earthquake and disaster mitigation engineering	2 (4)	Assoc. Prof. Shunsaku Komatsuzaki	Public policy studies, Institutional studies on infrastructure development, Social innovation, Case study of international project
		Assist. Prof. So Morikawa	Public administration, Public policy, Participatory and anticipatory governance
		<input type="radio"/> Prof. Riki Honda (GSFS)	Social resilience, Social network, Earthquake engineering, Technology transfer, Sustainable management engineering
		Adjunct members: Prof. Kimiro Meguro, Prof. Prof. Tetsuya Ihida, Prof. Wataru Takeuchi	
		Prof. Kimiro Meguro (IIS/III)	Comprehensive disaster management strategy, Structural and non-structural countermeasures for disaster reduction, International cooperation for disaster reduction
		Assoc. Prof. Muneoyoshi Numada (IIS/III)	Disaster Process Engineering, Disaster management, Training/ Educational system

Note 1: represents a concurrent professor. Concurrent professors cooperate with delivering lectures at graduate school of civil engineering, however, they are not in charge of students' dissertation guidance as a general.
 Note 2: Principal affiliation of faculty member is as follows; (IIS) Institute of Industrial Science, (ERI) Earthquake Research Institute, (GSFS) Graduate School of Frontier Sciences, (CSIS) Center for Spatial Information Science, (IFL) Institute for Future Initiatives, (GSIH) Graduate School of Interdisciplinary Information Studies, (IED) Institute of Engineering Innovation, (UCRL) University-Community Relations Laboratory, (DFL) Donated Fund Laboratory, (PSL) Program-Specific Laboratory
 Note 3: The supervisors in each group will be decided after consultation. The research content is just an example, and the research theme of the student is decided after admission.